

THE  
DAYTON C. MILLER  
FLUTE COLLECTION

*A Checklist of the Instruments*









Dayton C. Miller.  
(1866-1941)

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MUSIC DIVISION • REFERENCE DEPARTMENT

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## Foreword

The Dayton C. Miller Collection is an extraordinary assemblage of musical, bibliographic, pictorial, and organological materials, garnered from all corners of the globe. Indeed, during his lifetime (1866–1941) the late Dayton C. Miller assembled not one but five collections, all relating to his favorite instrument; in addition to the instruments themselves he accumulated some 10,000 titles of music, a fine collection of books on flutes and musical instruments in general, a varied assortment of art work featuring the flute (from woodcuts to statuary), and a small group of portraits and autographs of flutists. Together, these collections form a unique body of material for the study of the flute, and the Library of Congress was proud to accept Dr. Miller's bequest.

Being a physicist and one of the foremost scientists in the field of acoustics, Dayton C. Miller was especially interested in the flute as a sound-producing device. From his schooldays he was also an amateur musician, and he never lost sight of the musical qualities of the materials he collected. He was, with flutes as with scientific equipment, a fine craftsman as well as a theoretician, and this aspect of the subject came to interest him more and more as his collection grew in numbers and in kinds. The flute is likewise both a social and a historical document, and Dr. Miller was aware of both these aspects—especially the latter, in which he tended to hold a progressivist viewpoint. Finally, it must be remarked that—apart from all learned and scientific considerations—his collection served Dr. Miller as a serious avocation, and it affords edification on many different levels.

The book portion of Dr. Miller's collection was recorded for the public in 1935 in his privately printed *Catalogue of Books and Literary Material Relating to the Flute*. The present *Checklist* is intended to make known, in similar fashion, the content of the instrument collection. Most of the information here conveyed is based on Dr. Miller's own records and observations; certain points requiring lengthy research and expert investigation remain unresolved. We hope that the wealth of data contained in the *Checklist* will go far toward answering the questions of musicians, scholars, and enthusiasts all over the world and that it will serve the public by making known for the first time the exact contents of this part of the unique Dayton C. Miller Collection.

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## Preface

No one better exemplifies the traditional concept of the practical-minded, ever-curious American scientist than Dayton C. Miller, who was born on a farm (at Strongsville, Ohio, March 13, 1866), grew up under modest circumstances in the small Ohio town of Berea, and worked his way through Baldwin University (later Baldwin-Wallace College). It is characteristic that at his commencement exercises in 1886 he gave a lecture on "The Sun" and also played a flute solo with orchestral accompaniment (on a flute that unfortunately was not preserved). Later he obtained a doctorate in astronomy at Princeton University under Prof. Charles A. Young, and in 1890 he began an association with the Case School of Applied Science in Cleveland that lasted for over 50 years—first teaching astronomy, later (1893) becoming a professor in charge of the physics department. In early 1896, on reading accounts of Roentgen's experiments, Professor Miller became one of the first Americans to take an X-ray photograph; beginning in 1900 he associated with Prof. Edward W. Morley in those ether drift experiments that still concern astronomers and mathematicians dealing with Einstein's theory of relativity; in 1908 he introduced the phonodeik, a device that until the invention of electronic oscillators was one of the chief means of converting sound waves into visual images and thus of analyzing all manner of sounds from musical instruments to human speech. During World War I, at the request of the Government, Dr. Miller studied the physical characteristics of pressure waves caused by the firing of large guns—studies that on the one hand provided material for medical investigations of "shell shock," and on the other hand led to the results eventually reported in his *Sound Waves, Shape and Speed* (1937). Among his other published books one finds such varying titles as *The Science of Musical Sounds* (1916, revised 1922), *Sparks, Lightning and Cosmic Rays* (1939), and (translated and annotated) Theobald Boehm's *The Flute and Flute Playing* (1908, revised 1922, reprinted 1960). Death came to Dr. Miller at Cleveland on February 22, 1941, just as he was preparing to move with his entire collection of flutes, books, and related materials to the Library of Congress, and here complete the varied investigations that remained unfinished and unpublished.

A similar variety of interests is reflected in Dr. Miller's collection of flutes and allied instruments, which are here listed publicly for the first time. No. 1 in the collection is his father's Civil War fife, used as a toy and broken during young Dayton's childhood. No. 4 betrays the eager enthusiasm of the adult flutist, finally able to afford a first-class instrument made especially for him. Nos. 8 and 10 show Dayton C. Miller as both the theoretical scientist and the expert craftsman; the first is of silver and the second of gold, and this concern

with the properties of different materials for musical instruments was a major factor in his development of the phonodeik and in the many acoustical experiments he subsequently carried out, using examples in his collection. (When interrupted by his war work of 1917-19 he had started plans for a platinum flute that were never resumed.) But though his interest in acoustics and in musicmaking were chiefly responsible for starting the collection on its way, it can be seen from this *Checklist* that Dr. Miller found many other reasons for admiring and acquiring whistles, recorders, flageolets, fifes, flutes, and even a few other species of instruments of many kinds from many lands. It is interesting to note that a great part of the collection, close to 85 percent, was acquired after Dr. Miller had passed his 50th birthday.

The information given in this *Checklist* is based very largely on the information found in Dr. Miller's neatly pencilled ledgers, in which each instrument is accorded a single page that is supplemented upon occasion by drawings, letters, and other documentation. Only rarely has it been possible to add to or corroborate Dr. Miller's data by securing the opinions of specialists in the many fields that come into question. Often, for example, it was not clear to Dr. Miller or to us which of several similar-appearing woods had been used; and since the wood expert who was approached refused to render judgment without cutting a small test sample from an instrument, such questions were left hanging. Many other problems—of precise dating, of naming the geographic origin of exotic instruments, of commenting on peculiarities of craftsmanship—all these will have to await the assistance of appropriate experts and fuller discussion in a more extensive catalog which we hope will eventually be published.

In the meantime, this *Checklist* will at least inform the interested as to what is in the instrumental part of the Dayton C. Miller Collection and what is presently evident about each specimen—its type, maker or source, approximate date, number of pipes, finger holes, or keys, over all (not resonating) length, the source and date of its addition to the collection, and often other data. The numbering is that assigned by Dr. Miller and is roughly—though not entirely—chronological by date of acquisition; his series runs from 1 through 1426, though some of those numbers encompass as many as six or eight instruments in a set. At the end, beginning with 1501, have been added those instruments Dr. Miller failed to number and a few that have been added to the collection since its arrival at the Library of Congress. Curt Sachs's terminology, as suggested in *The History of Musical Instruments* (New York, 1940), has been followed in such respects as "cross flute" instead of "transverse flute" and in the formula for indicating the number of finger and thumb holes (for example, "6/0"). Pitch at 440 A is indicated when possible, or the lowest tone is given in the case of non-European orchestral instruments; the absence of such a pitch indication usually means that the instrument was not in sufficiently good playing condition to allow an accurate test. A few simple abbreviations used, such as "DCM" for Dayton C. Miller, hardly require explanation.

WILLIAM LICHENWANGER

1. FIFE (FRAGMENT). *Hopkins, Troy, New York, c. 1860.*

Rosewood with silver ferrule and lead mouthpiece; 387 mm; split and broken beyond second finger hole; played by C. W. D. Miller (father of DCM) during the Civil War.

2. PICCOLO IN C. *Nach H. F. Meyer, Hannover, c. 1880.*

6 keys; cocus with ivory head and silver fittings; 299 mm; played by DCM in the "Schubert Orchestra" (Chamberlains, Berea) from 1880-1886. Bought from S. W. Perry & Co., Berea, Ohio, 1880(?).

3. ENGLISH FLAGEOLET. *Anon., 19th cent.*

6 keys; cocus with ivory beak and silver fittings; 409 mm. Bought from S. W. Perry & Co., Berea, Ohio, c. 1880.

4. FLUTE IN C. *Rudall, Carte & Co., London, 1896.*

Boehm system (Rockstro's model), open G-sharp, extra G-G-sharp trill for first right finger added by DCM; B-flat foot made by DCM; ebonite with silver fittings; 680 and 764 mm; flute made to order for DCM; illus. (Plate viii) Girard's *La Flûte*, 1953. Bought from Rudall, Carte & Co., London, 21 Aug. 1896.

5. FLUTE IN C. *Rudall, Carte & Co., London, 1898.*

Boehm system with some Rockstro features, open G-sharp; foot to B; silver; 704 mm; flute made to order for DCM; illus. (Plate viii) Girard's *La Flûte*, 1953. Bought from Rudall, Carte & Co., London, 5 March 1899.

6. FLUTE IN G. *Rudall, Carte & Co., London, 1900.*

Boehm system with Rockstro F-sharp, open G-sharp, extra thumb lever for B-flat added by DCM; silver; 860 mm; flute made to order for DCM; illus. (p. 121, fig. 42) DCM's *Flute & Flute-Playing*, 1922. Bought from Rudall, Carte & Co., London, 23 Aug. 1900.

7. CROSS FLUTE. *Philippines, 1900.*

6/0; cane with holes burned in; lowest pitch C<sup>2</sup>; 338 mm. Bought at Philippine

Village, Pan-American Exposition, Buffalo, New York, 12 Sept. 1901.

8. FLUTE IN E-FLAT. *Dayton C. Miller, Cleveland, 1901.*

Boehm system with some Rockstro features, open G-sharp; foot to D<sup>1</sup>; silver; 2 joints; 600 mm.

9. FLUTE IN C. *R. Mould, London, early 19th cent.*

8 keys; rosewood with silver fittings; 665 mm. Bought from pawn shop, Chatham Square, New York, 31 Aug. 1904.

10. FLUTE IN C. *Dayton C. Miller, Cleveland, 1905.*

Boehm system with Rockstro and Miller features, open G-sharp; foot to B-flat; 22 karat gold tube, 18 karat gold fittings; 1 joint; 752 mm; illus. (Plate xiv) Girard's *La Flûte*, 1953. (See illustrations.)

11. FLUTE IN C. *Claude Laurent, Paris, 1844.*

Boehm system, Dorus G-sharp; green fluted glass with silver fittings; 658 mm; illus. (Plate x) Girard's *La Flûte*, 1953. Bought from M. J. Kalashen, New York, 14 Sept. 1905.

12. FLUTE IN C. *Clair Godfroy, aîné, Paris, c. 1840.*

Boehm's 1832 system, Dorus G-sharp; cocus with silver fittings; 655 mm; illus. (p. 11, fig. 6) DCM's *Flute & Flute-Playing*, 1922. Bought from William R. Gibbs, Boston, 24 March 1906.

13. TI (CROSS FLUTE). *Chinatown, San Francisco, c. 1900.*

6/0, membrane hole, tassel holes; bamboo stained brown with bone ferrules at each end, yellow tassel; 660 mm. Gift of A. P. Miller, Oakland, California, 25 Dec. 1906.

14. FLUTE IN C. *Rudall, Rose, Carte & Co., London, c. 1867.*

Carte's 1867 patent; silver; 633 mm. Bought from William R. Gibbs, Boston, 19 Feb. 1907.

15. FLUTE IN C. *Stephan Koch, Vienna, early 19th cent.*

12 keys; foot to A; ebony with silver fittings 795 mm. Bought from H. E. Mc-Millen Co., Cleveland, 27 July 1907.

16. T'AI P'ING HSIAO (VERTICAL WHISTLE FLUTE). *Chinatown, San Francisco, c. 1900.*

6/0, membrane hole, tassel holes; bamboo stained brown with bone ferrules at each end, blue tassel; 525 mm. Gift of A. P. Miller, Oakland, California, 1906 or 1907.

17. CHI NA (DOUBLE-REED PIPE), *Chinatown, San Francisco, c. 1900.*

7/1; redwood body with brass bell and staple; 330 mm (without reed). Gift of A. P. Miller, Oakland, California, Dec. 1906(?).

18. END-BLOWN PIPE. *Olympia, Greece, c. 1904.*

6/1; natural reed with holes burned in, incised decoration; 247 mm. Gift of Prof. F. H. Herrick, Olympia, 12 May 1904.

19. FLUTE IN C. *Hill, Late Monzani & Co., London, 1834-39.*

11 keys; foot to B; cocus or rosewood with silver fittings; 2 head joints, 717 or 723 mm; illus. (Plate VIII) Girard's *La Flûte*, 1953. Bought from pawn shop, Chatham Square, New York, 16 Oct. 1907.

20. FLUTE IN C. *Anon., early 19th cent.*

1 key; boxwood(?) with brass fittings; 615 mm. Gift of A. P. Miller, Oakland, California, 25 Dec. 1908(?).

21. FLUTE HEAD JOINT. *Rudall, Carte & Co., London, c. 1900.*

18 karat gold with engraved lip plate; 225 mm. Bought from William R. Gibbs, Boston, 11 Jan. 1908.

22. FLUTE IN C. *Rudall & Rose, London, 1832-37.*

6 or 10 keys; D<sup>1</sup> and B-flat foot joints; grenadilla with silver fittings; 600 or 742

mm; patent adjustment for cork and tuning slide (British Patent No. 6338, Rudall & Rose, 1832); illus. (Plate VIII) Girard's *La Flûte*, 1953. Source unknown.

23. FLUTE IN C. *Anon., mid-19th cent.*

Boehm's 1832 system, Dorus G-sharp, Briccialdi thumb lever added; cocus with silver fittings; 679 mm. Gift of Charles H. Ditson Co., New York, 1 Sept. 1908.

24. FLUTE IN G (TUBE ONLY). *Th. Boehm & Mendler, Munich, 1870(?)*.

13 holes with raised edges spaced according to the Boehm system; 2 joints; boxwood with brass rings; 870 mm; illus. (p. 94, fig. 31, no. 1) DCM's *Flute & Flute Playing*, 1922. Gift of James S. Wilkins II, Preston, Cuba, 1909.

25. FLUTE IN C. *A. G. Badger, New York, 1845-92.*

16 Keys, experimental system, all holes closed by independent keys, no clutches or interconnections; low C and C-sharp are open as on Boehm; silver with gold plated keys and rods; 690 mm. Bought from pawn shop on the Bowery, New York, 20 Aug. 1910.

26. FLUTE IN C. *Rudall & Rose, London, 1827-37.*

8 keys; boxwood with silver fittings; 640 mm. Bought from secondhand store, South Side, Vauxhall Bridge Road, London, Aug. 1912.

27. FLUTE IN C. *Anon., late 18th cent.*

1 key; ivory with gold fittings; 645 mm. Bought from E. Sagnard, Paris, 16 Sept. 1912.

28. FLUTE IN C. *Anon., late 18th cent.*

1 key; ivory with silver fittings; 600 mm. Bought from estate of Joseph Fischer, Cleveland, 2 March 1913.

29. FLUTE IN C. *Anon., mid-19th cent.*

8 keys plus 6 covered finger holes; rosewood or cocus with silver fittings; 665 mm. Bought from estate of Joseph Fischer, Cleveland, 2 March 1913.

30. PICCOLO IN E-FLAT. *Firth, Hall & Pond, New York, 1833-47.*

1 key; boxwood with brass key and ivory rings; 280 mm. Bought from estate of Joseph Fischer, Cleveland, 2 March 1913.

31. MUSETTE. *Dasque, Saintes, France, mid-19th cent.*

6/1; 6 keys; cocus with silver fittings; 361 mm (without reed). Bought from estate of Joseph Fischer, Cleveland, 2 March 1913.

32. PANPIPES. *19th cent.*

20 pipes; D<sup>2</sup>-D<sup>4</sup>; bamboo; 145-64 mm. Bought from estate of Joseph Fischer, Cleveland, 2 March 1913.

33. OBOE IN C. *Cahusac, London, 1780-1810.*

2 keys (one with double touch); boxwood with brass keys and ivory rings; 586 mm. Bought from estate of Joseph Fischer, Cleveland, 2 March 1913.

34. PICCOLO IN D-FLAT. *Anon., early 19th cent.*

1 key; boxwood with brass key and ivory rings; 288 mm. Bought from estate of Joseph Fischer, Cleveland, 2 March 1913.

35. FLUTE IN C. *Anon., mid-19th cent.*

13 keys (extra C key on outer side); cocus(?) with silver fittings; 665 mm. Bought from estate of Joseph Fischer, Cleveland, 9 March 1913.

36. FLUTE IN C. *Anon., early 19th cent.*

4 keys; boxwood with silver keys and ivory rings; large brass bell attached to foot; 670 mm (without cap), 596 mm (without cap and bell). Bought from estate of Joseph Fischer, Cleveland, 9 March 1913.

37. FIFE IN A-FLAT. *Firth, Son & Co., New York, 1865-67.*

Rosewood or cocus with brass ferrules; 425 mm. Bought from estate of Joseph Fischer, Cleveland, 9 March 1913.

38. FLUTE IN C. *Djalma Julliot (?)*, "La Couture," late 19th cent.

6 keys with raised finger holes; silver; 615 mm. Bought from Lyon & Healy, Chicago, 25 Apr. 1913.

39. FLUTE IN C. *Martin Thibouville Ainé, Paris, late 19th cent.*

Boehm system with perforated keys, closed G-sharp; silver; 675 mm. Bought from Harris Loan Office, San Francisco, Aug. 1913.

40. FLUTE IN C. *Anon., mid-19th cent.*

5 keys; boxwood with silver keys (shell-shaped) and black horn rings; 640 mm. Bought from Carl (Max) Fischer, New York, 1 Nov. 1913.

41. FLUTE IN C. *Philipp Euler, Frankfurt, 1818-40.*

12 keys; foot to A; cocus or grenadilla with silver fittings; 800 mm. Bought from Carl Fischer, New York, 1 Nov. 1913.

42. OBOE IN C. *Johann Gottfried Liebel Adorf, Germany, 1798.*

3 keys (one with double touch); 3 upper joints (one marked 1, two marked 3); boxwood with brass keys; 560 or 572 mm. Bought from Carl Fischer, New York, 1 Nov. 1913.

43. FLUTE IN C. *Rudall, Rose, Carte & Co., London, c. 1857-71.*

Carte's 1851 patent; silver; 650 mm. Bought from F. E. Higgins, Worcester, Mass., 10 June 1914.

44. FLUTE IN C. *Cornelius Ward, London, 1842-60.*

Ward's 1842 patent; foot to A; cocus with silver fittings; 730 mm. Bought from Allen Loomis, Detroit, 5 Apr. 1915.

45. DOUBLE FLAGEOLET. *E. Riley, New York, 1819-31.*

Right tube: 3 keys plus shutter; left tube: 2 keys; boxwood with brass keys and ivory rings, studs and beak; 470 mm. Bought from The Little French Shop, New York, 22 July 1916.

46. ENGLISH FLAGEOLET. *Anon., early 19th cent.*  
3 keys; boxwood with silver keys and ivory rings, studs, and beak; new upper joint and beak made by DCM; 400 mm. Bought from The Little French Shop, New York, 22 July 1916.
47. DOUBLE FLAGEOLET. *Anon., early 19th cent.*  
Right tube: 3 keys plus shutter; left tube: 3 keys plus shutter; boxwood with brass keys and ivory rings, studs, and beak; 395 mm. Gift of Wm. S. Haynes, Boston, Sept. 1916.
48. FLUTE IN C. *J. Herold, Wurzburg, mid-19th cent.*  
Boehm system, open G-sharp; boxwood with silver fittings; head not original; 650 mm. Gift of William S. Haynes, Boston, Sept. 1916.
49. FLUTE IN G. *Th. Boehm & Mendler, Munich, 1862-81.*  
Boehm system, open G-sharp; silver plated with cocus head; 865 mm; brought to U.S. by Carl Wehner; illus. (p. 94, fig. 31, no. 16) DCM's *Flute & Flute-Playing*, 1922. Bought from George W. Haynes, New York, 26 Sept. 1916.
50. PICCOLO IN C. *Schulze, New Haven, Connecticut, 1890.*  
5 keys, 4 rings (simplified Boehm system); grenadilla with silver fittings; 314 mm. Bought from Louis P. Fritze, Brooklyn, Dec. 1916.
51. FLUTE IN E-FLAT. *Rönberg, New York, 1856-90.*  
Boehm system, open G-sharp (originally Dorus G-sharp); boxwood with silver fittings; 555 mm. Bought from Louis P. Fritze, Brooklyn, Dec. 1916.
52. FLUTE IN C. *Boehm & Mendler, Munich, 1862-81.*  
Boehm system, open G-sharp; grenadilla with silver fittings; 687 mm; illus. (p. 94, fig. 31, no. 3) DCM's *Flute & Flute-Playing*, 1922. Bought from Louis P. Fritze, Brooklyn, Dec. 1916.
53. PICCOLO IN C. *Boehm & Mendler, Munich, 1862-81.*  
Boehm system, open G-sharp; grenadilla with silver fittings; 300 mm; illus. (p. 94, fig. 31, no. 8) DCM's *Flute & Flute-Playing*, 1922. Bought from George W. Haynes, New York, Dec. 1916.
54. FLUTE IN C. *Rudall, Carte & Co., London, c. 1911.*  
8 keys; cocus with silver fittings; 650 mm. Body and foot bought from George W. Haynes, New York, Jan. 1917; head gift of William S. Haynes, Boston, 5 Feb. 1917.
55. PICCOLO IN C. *Louis Lot, Paris, c. 1900.*  
Boehm system, closed G-sharp; 2 head joints (high and low pitch); cocus with silver fittings; 320 mm. Bought from Alexander Selmer, New York, 10 Jan. 1917.
56. PICCOLO IN C. *Anon., 19th cent.*  
6 keys plus 6 covered finger holes; wood lacquered black with silver fittings; 303 mm. Bought from pawn shop on North Clark Street, Chicago, 26 Jan. 1917.
57. FLUTE IN C. *Boehm & Mendler, Munich, 1862-81.*  
Boehm system, open G-sharp; grenadilla with silver fittings, 685 mm; illus. (p. 94, fig. 31, no. 4) DCM's *Flute & Flute-Playing*, 1922. Bought from George W. Haynes, New York, 1 Feb. 1917.
58. FLUTE IN C. *A. G. Badger, New York, 1845-92.*  
Boehm system, closed G-sharp (originally open but converted by G. W. Haynes); silver with ebonite head; 661 mm. Bought from George W. Haynes, New York, 1 Feb. 1917.
59. FLUTE IN C. *Boehm & Mendler, Munich, 1879.*  
Boehm system, open G-sharp; foot to B; silver with wood head; 675 mm; illus. (p. 94, fig. 31, no. 13) DCM's *Flute & Flute-Playing*, 1922. Bought from Eugene R. Shippen, Detroit, 5 Feb. 1917.

60. FLUTE IN C. *C. G. Christman, New York, 1837-54.*  
4 keys; cocus or rosewood with ivory head and silver fittings; 596 mm. Bought from William Lloyd, New Orleans, 15 Feb. 1917.
61. FLUTE IN D-FLAT. *Boehm & Mendler, Munich, 1862-81.*  
Boehm system, open G-sharp; lowest pitch E-flat; grenadilla with silver fittings; 563 mm; illus. (p. 94, fig. 31, no. 7) DCM's *Flute & Flute-Playing*, 1922. Bought from Arthur Gemeinhardt, New York, 8 June 1917.
62. FLUTE IN D-FLAT. *Schwedler & Kruspe, Leipzig, c. 1900.*  
Schwedler's Reform Flute; foot to C<sup>1</sup>; cocus with silver head and silver fittings; 678 mm. Bought from Sherman, Clay & Co., San Francisco, 20 Aug. 1917.
63. CROSS FLUTE. *South Sea Islands(?)*, 19th cent.  
8/0; heavy bamboo wrapped with wire (painted black) in two places; 520 mm. Bought from Pierce's Old Book and Curio Shop, Berkeley, California, 4 Sept. 1917.
64. TI (CROSS FLUTE). *Chinatown, San Francisco, c. 1900.*  
6/0, membrane hole, tassel holes; bamboo stained dark brown with bird and other decoration, bone ferrules at each end; 649 mm. Bought from music store on San Pablo Avenue, Oakland, California, 7 Sept. 1917.
65. FLUTE IN C. *F. Zogbaum & Co., New York, 1854-70.*  
1 key; cocus with silver fittings; 605 mm. Bought from Pierce's Old Book Shop, Berkeley, California, 4 Sept. 1917.
66. FLUTE IN C. *Gautrot aîné, Paris, mid-19th cent.*  
5 keys; ebony with silver fittings; 620 mm. Bought from Pierce's Old Book Shop, Berkeley, California, 4 Sept. 1917.
67. PICCOLO IN C. *Agostino Rampone, Milan, late 19th cent.*  
7 keys; cocus(?) with silver fittings; 320 mm. Bought from pawn shop on Kearney Street, San Francisco, 5 Sept. 1917.
68. FLUTE IN E-FLAT. *H. F. Meyer, Hannover, late 19th cent.*  
7 keys; cocus with ivory head and silver fittings; 503 mm. Bought from pawn shop on Kearney Street, San Francisco, 5 Sept. 1917.
69. PICCOLO IN D-FLAT. *Anon., late 19th cent.*  
6 keys; wood covered with silver tube; 312 mm. Bought from California Loan Co., Oakland, California, 11 Sept. 1917.
70. FLUTE IN C. *Giuseppe Barlassina, Milan, c. 1900.*  
18 keys (old system with covered finger holes and other extra keys); foot to B; 2 head joints (high and low pitch); flute body is a double silver tube; cylindrical exterior and conical interior; 622 or 688 mm. Bought from pawn shop at Broadway and 9th Street, Oakland, California, 11 Sept. 1917.
71. FLUTE IN C. *Berteling, New York, 1857-90.*  
13 keys; foot to B; grenadilla with ivory head and silver fittings; 695 mm. Bought from California Loan Co., Oakland, California, 11 Sept. 1917.
72. FLUTE IN C. *Anon., 19th cent.*  
10 keys, extra key between F-sharp and G; rosewood (barrel covered with silver) with silver fittings; 665 mm. Bought from California Loan Co., Oakland, California, 11 Sept. 1917.
73. FLUTE IN C. *C. Peloubet, New York, 1829-35.*  
8 keys; ivory with silver band at embouchure and silver fittings; 665 mm. Bought from Baxter-Northup Co., Los Angeles, 13 Sept. 1917.
74. FLUTE IN C. *A. G. Badger, New York, 1845-92.*  
Boehm's 1832 system, Dorus G-sharp; cocus or rosewood with silver band at embouchure and silver fittings; 671 mm. Bought from Baxter-Northup Co., Los Angeles, 13 Sept. 1917.

75. FLUTE IN C. *Rudall, Rose & Carte, London, 1854-57.*
- Carte's 1851 patent modified; other holes have been cut into body and then filled; silver with ebonite tube at embouchure; 628 mm. Bought from Baxter-Northup Co., Los Angeles, 13 Sept. 1917.
76. FLUTE IN C. *Frank Aman & Co., Chicago, 1917.*
- 9 keys, 5 rings, open G-sharp; DCM: "Special 'Aman' Model, of conical bore. Boehm system made with the idea of a good flute for cheap, quantity production." Silver; 673 mm. Bought from Frank Aman & Co., Chicago, 29 Sept. 1917.
77. FLUTE IN C. *Karl Stecher, Vienna, late 19th cent.*
- 13 keys; foot to B; grenadilla with silver fittings; 700 mm. Bought from Frank Aman, Chicago, 29 Sept. 1917.
78. FLUTE IN C. *H. F. Meyer, Hannover, late 19th cent.*
- 11 keys; foot to B; cocus with ivory head and silver fittings; 700 mm. Bought from Lomborg Brothers, New York, 12 Oct. 1917.
79. FLUTE IN E-FLAT. *C. Peloubet, New York, 1829-35.*
- 1 key; boxwood with brass key and ivory rings; 505 mm. Bought from Winick Auction & Storage Co., Cleveland, 17 Oct. 1917.
80. PICCOLO IN D-FLAT. *Anon., late 19th cent.*
- 6 keys; silver; 291 mm. Bought from Carl Fischer, New York, 23 Oct. 1917.
81. PICCOLO IN C. *Rudall, Carte & Co., London, 1918.*
- Boehm system, open G-sharp; cocus with silver fittings; 316 mm. Bought from William R. Gibbs, Boston, Aug. 1919.
82. PICCOLO IN C. *Anon., 19th cent.*
- 1 key; cocus with silver fittings; 310 mm. Bought from pawnshop on Ontario Street, Cleveland, 14 Nov. 1917.
83. FIFE IN A-FLAT. *Anon., 19th cent.*
- Nickel-plated brass; 412 mm. Bought from pawn shop, Chicago, 29 Nov. 1917.
84. FLUTE IN C. "*Monzani & Co., London, c. 1850(?)*."
- Siccama model (British Patent No. 10,553, Abel Siccama, 1845); cocus with silver band at embouchure and silver fittings; 656 mm. Bought from Baxter-Northup Co., Los Angeles, 18 Jan. 1918.
85. FLUTE IN D-FLAT. *H. F. Meyer, Hannover, c. 1900.*
- 12 keys; foot to C<sup>1</sup>; grenadilla with ebonite head and silver fittings; 676 mm. Bought from Baxter-Northup Co., Los Angeles, 18 Jan. 1918.
86. PICCOLO IN D-FLAT. *H. F. Meyer, Hannover, c. 1900.*
- 6 keys; grenadilla with ebonite head and silver fittings; 290 mm. Bought from Baxter-Northup Co., Los Angeles, 18 Jan. 1918.
87. FLUTE IN C. *H. F. Meyer, Hannover, late 19th cent.*
- 14 keys; foot to B; grenadilla with ebonite head and silver fittings; 720 mm. Bought from Baxter-Northup Co., Los Angeles, 1 March 1918.
88. FLUTE IN C. *Gerock & Wolf, London, 1831-32.*
- 4 keys; boxwood with silver keys and ivory rings; 610 mm. Source unknown, March 1918(?).
89. FLUTE IN C. *H. F. Meyer, Hannover, late 19th cent.*
- 11 keys; foot to B; cocus with ivory head and silver fittings; 723 mm. Bought from Baxter-Northup Co., Los Angeles, March 1918.
90. PICCOLO IN C. *Martin, Paris, late 19th cent.*
- 5 keys; cocus with silver keys and ivory rings; 4 joints; 323 mm. Bought from George W. Haynes, New York, 22 March 1918.



91. FLUTE IN C. *Louis Lot, Paris, c. 1860.*

Boehm system with perforated keys, Dorus G-sharp; foot to B; cocus with silver fittings; 703 mm. Bought from George W. Haynes, New York, 22 March 1918.

92. FLUTE IN C. *Th. Boehm & Mender, Munich, 1877.*

Boehm system, open G-sharp, octave key; foot to B; silver with gold lip plate; 671 mm; illus. (p. 94, fig. 31, no. 11) DCM's *Flute & Flute-Playing*, 1922. Bought from George W. Haynes, New York, 22 March 1918.

93. FLUTE IN C. *Martin Frères, Paris, mid-19th cent.*

4 keys; cocus or rosewood with silver fittings; 615 mm. Bought from "Atlas," 927 D Street, N.W., Washington, 16 May 1918.

94. FLUTE IN C. *T. Berteling & Co., New York, 1857-90.*

14 keys, Berteling's system, extra key for E<sup>♯</sup>; grenadilla (head and barrel covered with silver tube) with silver fittings; 660 mm. Bought from "Atlas," 927 D Street, N.W., Washington, 16 May 1918.

95. FLUTE IN C. *Carl Fischer, New York, c. 1900.*

13 keys plus 6 covered finger holes; foot to B; grenadilla with silver fittings; 715 mm; "E. Vanloock/Washington D.C." stamped on lower end. Bought from "Atlas," 927 D Street, N.W., Washington, 16 May 1918.

96. FLUTE IN C. *George Cloos, New York, c. 1900.*

10 keys plus 6 covered finger holes; cocus with silver fittings; 680 mm. Bought from George Cloos, Brooklyn, N.Y., 6 June 1918.

97. FLUTE IN C. *John Pfaff, Philadelphia, 1849-86.*

11 keys with unusual arrangement of foot and thumb keys; foot to B; 2 head joints (with and without slide); rosewood with silver fittings; 700 mm. Bought from George Cloos, Brooklyn, N.Y., 6 June 1918.

98. FLUTE IN C. *Louis Lot, Paris, c. 1872.*

Boehm system with perforated keys, closed G-sharp; foot to D<sup>♯</sup>; cocus with ebonite head and silver fittings; 533 mm. Bought from Baxter-Northup Co., Los Angeles, 20 Nov. 1918.

99. FLUTE IN C. *Th. Boehm, Munich, c. 1850.*

Boehm system with keys mounted on far side, open G-sharp; 2 head joints; silver with one head of wood; 663 mm; illus. (p. 11, fig. 7 and p. 94, fig. 31, no. 9) DCM's *Flute & Flute-Playing*, 1922. DCM: "This is probably the first metal Boehm flute to be brought to America [1864 by Edward Martin Heindl]." Boehm's No. 19. Bought from Baxter-Northup Co., Los Angeles, 20 Nov. 1918.

100. ZUMMARAH (DOUBLE-REED PIPES). *Egypt, 19th cent.*

Each pipe 6/0; bamboo pipes (3 joints each) bound together with string; a coiled snake of braided wire is attached; 339 mm (without reeds). Bought from James S. Gibson, Boston, 23 Dec. 1918.

101. IRISH UNION PIPE (CHANTER ONLY). *Michael Egan, Liverpool, c. 1845-51.*

7/1 (double holes), 1 key; wood with brass key and ivory ring; 380 mm. Bought from James S. Gibson, Boston, 23 Dec. 1918.

102. NOSE FLUTE. *Indonesia(?), 19th cent.*

6/0; bamboo with decorations burned in; 538 mm. Bought from James S. Gibson, Boston, 23 Dec. 1918.

103. FLUTE IN C. *Firth, Hall & Pond, New York, 1833-47.*

2 keys (short F and D-sharp); DCM: "The middle joint is new, and has no keys. Probably the original had at least two keys, making a 4-keyed flute. The spacing of the holes is very peculiar for the other parts; they are nearly a half-tone flat in position." Boxwood with brass keys and ivory rings; 596 mm (without cap). Bought from James S. Gibson, Boston, 23 Dec. 1918.

104. FLUTE MOUTHPIECE. *Wünnenberg cologne, c. 1889.*

Wünnenberg's patent for vertical holding (German D.R.P. No. 49789); extra joint for horizontal holding; silver with ivory tube at embouchure; 223 mm. Bought from Karl Krause, Albany, N.Y., 1918 or 1919(?)

105. WHISTLE. *North American Indian, 19th cent.*

Eagle wing bone(?) stained purple with thong loop; 150 mm. Bought from travelling salesman, Cleveland, Jan. 1919.

106. WHISTLE. *North American Indian or Mexican, 19th cent.*

2 tone holes in front below neck; pottery stained brown; in the shape of cow or dog; 100 mm. Bought from travelling salesman, Cleveland, Jan. 1919.

107. FLUTE IN C. *Berteling, New York, 1882-90.*

14 keys, 3 rings, several features of Berteling's patent (U.S. Patent No. 264,611, T. Berteling, 1882); foot to B; grenadilla with ivory head and silver fittings; 704 mm. Bought from "Atlas," 927 D Street, N.W., Washington, 20 Jan. 1919.

108. FLUTE IN C. *George W. Haynes, New York, 1912.*

Boehm system, closed G-sharp; 2 joints; cocus with silver lip plate and silver fittings; 680 mm. Bought from George W. Haynes, New York, 15 Feb. 1919.

109. FLUTE IN C. *Clinton & Co., London, c. 1863.*

Clinton's Equisonant Model; silver; 657 mm. Bought from D. Ehrlich, New York, 15 Feb. 1919.

110. FLUTE IN C. *Louis Lot, Paris, c. 1875.*

Boehm system with perforated keys, closed G-sharp; cocus with silver fittings; 675 mm. Bought from George W. Haynes, New York, 17 March 1919.

111. FLUTE IN C. *Rudall, Rose, Carte & Co., London, 1857-71.*

8 keys with 6 covered finger holes (1 perforated); cocus with silver fittings; 650 mm. Bought from D. Ehrlich, New York, 23 March 1919.

112. GIORGI FLUTE IN C. *Joseph Wallis & Son, Ltd., London, c. 1888.*

Giorgi system (9/2); ebonite; lowest pitch D<sup>4</sup>; 2 joints; 523 mm. Bought from Baxter-Northup Co., Los Angeles, 9 Apr. 1919.

113. FLUTE IN C. *Wm. A. Pond & Co., New York, 1865-77.*

8 keys; cocus or rosewood with silver keys and ivory rings; 665 mm. Bought from Baxter-Northup Co., Los Angeles, 9 Apr. 1919.

114. KAVAL (END-BLOWN FLUTE). *Bulgaria, 19th cent.*

7/0; mahogany(?) with broad decorated ivory rings; 3 joints; 842 mm. Bought from F. Vragas & Co., New York, 30 June 1919.

115. FLUTE IN C. *Wm. S. Haynes (made personally by him), Boston, 1902.*

Boehm system, closed G-sharp; grenadilla with silver fittings; 675 mm. Gift of Wm. S. Haynes Co., Boston, 15 Sept. 1919.

116. PICCOLO IN C. *Emil Rittershausen, Berlin, late 19th cent.*

6 keys plus 6 covered finger holes; grenadilla with silver fittings; 317 mm; "Carl Fischer/New-York/4102" also stamped on body. Bought from George W. Haynes, New York, 6 Oct. 1919.

117. DOUBLE FLAGEOLET. *Bacon & Hart, Philadelphia, 1818-32.*

Right tube: 5/0, 3 keys plus shutter; left tube: 7/0, 2 keys plus shutter; boxwood with brass keys and ivory beak and studs; 480 mm. Gift of Robert R. Tattall, Philadelphia(?), 11 Oct. 1919.

118. FLUTE IN LOW F. *George W. Haynes, Los Angeles, 1898.*

Boehm system, closed G-sharp; tube of Mexican silver dollars; lip plate of \$20 gold piece; tube has the first drawn tone

holes, originated by G. W. Haynes; 954 mm. Bought from Baxter-Northup Co., Los Angeles, 18 Oct. 1919.

119. FLUTE IN C. *F. Schaffler & J. Leukhardt, Boston, 1851-57.*

13 keys; foot to A; cocus with ivory head and silver fittings; 785 mm. Bought from Edward F. Chapin, Chicago, Nov. 1919.

120. FLUTE IN C. *T. Goggan & Bro., Galveston, Texas, 1825.*

1 key; cocus with silver fittings; 600 mm. Bought from Baxter-Northup Co., Los Angeles, Nov. 1919.

121. FLUTE IN C. *C. G. Christman, New York, 1855-57.*

6 keys; foot to C<sup>1</sup>; rosewood with silver keys and ivory rings; 674 mm. Bought from Baxter-Northup Co., Los Angeles, Nov. 1919.

122. SHAKUHACHI IN D-FLAT (END-BLOWN NOTCHED FLUTE). *Japan, early 20th cent.*

4/1; bamboo painted red on inside; 565 mm. Gift of T. Shinomiya, Hiroshima, 19 Jan. 1920.

123. FLUTE IN C. *William Hall & Son, New York, 1848-75.*

8 keys; cocus with silver fittings and silver band at embouchure; 652 mm. Bought from Baxter-Northup Co., Los Angeles, 26 Jan. 1920.

124. FLUTE IN C. *G. Astor & Co., London, early 19th cent.*

1 key; boxwood with brass key and ivory ring; 615 mm. Bought from William R. Gibbs, Boston, 9 March 1920.

125. FLUTE IN C. *Dollard, Dublin, 1822-36.*

5 keys; foot to C-sharp<sup>1</sup>; ivory with silver fittings; 640 mm. Bought from Redman, Chicago, 24 May 1920.

126. PICCOLO IN C AND D-FLAT. *Nicholas Alberti, Chicago, c. 1914.*

Boehm system with Alberti patent, closed G-sharp; the Alberti patent

(British Patent No. 16039, Alberti, 1914) has an inner tube which can be shifted by a semitone distance for the primary finger holes. The keys are oblong in shape to fit the two different hole spacings. 294 and 310 mm. Gift of Nicholas Alberti, Chicago, 22 May 1920.

127. ALTO RECORDER IN F. *P. Bressan, London, c. 1720-24.*

Boxwood with ivory rings and beak; 503 mm. Formerly in the Southgate Collection. Bought from John Finn, Essex, June 1920.

128. PICCO PIPE. *Anon., London, mid-19th cent.*

Cocus with silver rings; 94 mm. Gift of Arthur Brooke, Boston, 8 July 1920.

129. DOUBLE FLAGEOLET. *Bainbridge, London, 1819-31.*

Right tube: 5/0, 4 keys plus shutter; left tube: 7/0, 4 keys; boxwood with silver keys and ivory rings and beak; 480 mm. Bought from James S. Gibson, Denver, Colorado, July 1920.

130. FLUTE IN C. *John Pfaff, Philadelphia, 1849-86.*

8 keys; rosewood with ivory head and silver fittings; 671 mm. Bought from Wendell P. Tarbell, Milford, New Hampshire, 15 July 1920.

131. FLUTE IN C. *A. Hopkins, Litchfield, Connecticut, 1830.*

4 keys; boxwood with silver keys and ivory rings; 596 mm. Bought from Wendell P. Tarbell, Milford, New Hampshire, 15 July 1920.

132. CUCKOO PIPE. *Anon., 19th cent.*

Sounds G-sharp<sup>2</sup> and E<sup>2</sup>; boxwood with ivory beak; 245 mm. Bought from A. P. Miller, Oakland, California, 19 July 1920.

133-A. FLUTE IN C. *Abel Siccama, London, 1850.*

12 keys, Siccama model; cocus with silver fittings; 643 mm; made for Christopher Welch. Bought from John Finn, Essex, 21 July 1920.

133-B. FLUTE IN C. *Abel Siccama, London, c. 1850.*

12 keys, Siccama model; cocus with silver fittings; 643 mm. Source unknown.

134. FLUTE IN C. *Th. Boehm & Mendler, Munich, 1862-81.*

Boehm system, open G-sharp; silver with gold lip plate; 650 mm; used in Buffalo Bill's Wild West European tour in 1887; illus. (p. 94, fig. 31, no. 10) DCM's *Flute & Flute-Playing*, 1922. Bought from Paul H. Oliver, Nutley, New Jersey, 7 Aug. 1920.

135. ENGLISH FLAGEOLET. *Bainbridge & Wood, London, 1808-20.*

7/1, 2 keys (British Patent No. 2693, Bainbridge, 1803); boxwood with brass keys and ivory beak and studs; 404 mm. Bought from John Finn, Essex, 20 Sept. 1920.

136. PICCO PIPE. *Anon., mid-19th cent.*

Boxwood; 90 mm. Bought from John Finn, Essex, England, 20 Sept. 1920.

137. NOSE FLUTE. *India, 19th cent.*

4/0; bamboo with incised design; small hole (size of a pin) opposite the first finger hole; 244 mm. Gift of John Finn, Essex, England, 20 Sept. 1920.

138. FLUTE IN C. *E. Bercioux, Paris, and Djalma Julliot, "La Couture," c. 1920.*

Boehm system with perforated keys, Mignolet's patent G-sharp; cocus with silver fittings; 686 mm. Flute marked: "Djalma Juilliot/La Couture Boussey (Eure)/E. Bercioux/Paris/Breveté/S.G. D.G." Bought from Jean Mignolet, Denver, Colorado, 30 June 1920.

139. FLUTE IN C. *Djalma Julliot, "La Couture," early 20th cent.*

7 keys with Mignolet's patent G-sharp; foot to D<sup>1</sup>; silver with cocus head and silver fittings; 632 mm. Gift of Jean Mignolet, Denver, Colorado, 20 Sept. 1920.

140. FLUTE IN C. *August Grenser, Dresden, mid-18th cent.*

1 key; register on foot; 2 upper body joints; boxwood with brass key and ivory

rings; 602 and 630 mm. Bought from Jean Mignolet, Denver, Colorado, 20 Sept. 1920.

141. T'AI P'ING HSIAO (VERTICAL WHISTLE FLUTE). *Chinatown, San Francisco, early 20th cent.*

6/0, membrane hole, tassel holes, hole at upper end for drying wind chamber (stopped with paper plug); lowest pitch C<sup>2</sup>; bamboo with bone ferrules and green tassel; 477 mm. Bought in Chinatown, San Francisco, 16 Aug. 1920.

142. TI (CROSS FLUTE). *Chinatown, San Francisco, early 20th cent.*

6/0, membrane hole, tassel holes; bamboo with bone tips and 24 wrappings of silk covered with black lacquer; 650 mm. Bought in Chinatown, San Francisco, 16 Aug. 1920.

143. FENG HUANG HSIAO (NOTCHED FLUTE). *Chinatown, San Francisco, early 20th cent.*

5/1, tassel holes; bambo with bone tips; 550 mm. Bought from Pierce's Old Book & Curio Store, Berkeley, California, 17 Aug. 1920.

144. SEITEKI (CROSS FLUTE). *Japan, early 20th cent.*

6/0, membrane hole, tassel holes; bamboo stained brown and lacquered red on inside with ivory tips; ivory top (72 mm) opens by a screw thread joint, for storing spare membrane paper; 530 mm. Bought from Aoki, San Francisco, 14 Aug. 1920.

145. SEITEKI (CROSS FLUTE). *Japan, early 20th cent.*

6/0, membrane hole, tassel holes; bamboo stained brown in mottled design, lacquered red inside, ivory tips; ivory top opens by a screw thread joint for storing spare membrane paper; 451 mm. Bought from Aoki, San Francisco, 14 Aug. 1920.

146. FLUTE IN C. *Griesling & Schlott, Berlin, 1808-35.*

8 keys; boxwood with brass keys and ivory rings; 665 mm. Bought from pawn shop on Howard Street, San Francisco, 16 Aug. 1920.

147. FLUTE IN C. *Boehm & Mendler, Munich, c. 1870.*

Boehm system, closed G-sharp (originally open); cocus with silver fittings; 665 mm; illus. (p. 94, fig. 31, no. 6) DCM's *Flute & Flute-Playing*, 1922. Bought from Panama Loan Office, San Francisco, 20 Aug. 1920.

148. FLUTE IN C. *Cahusac, London, late 18th cent.*

1 key; boxwood with brass fittings; 621 mm. Bought from A. Masino, Oakland, California, 23 Aug. 1920.

149. FLUTE IN C. *Rudall, Carte & Co., London, 1879.*

8 keys plus 6 covered finger holes (1 perforated); cocus with silver fittings; 650 mm. Bought from Lindborg Music Co., Los Angeles, 13 Sept. 1920.

150. VERTICAL WHISTLE FLUTE. *North American Indian (Cheyenne), 19th cent.*

6/0; lowest pitch E<sup>1</sup>; redwood with lead lip, thongs, and feathers; incised birds and animals; 625 mm. Bought from Harvey's Curio Store, Albuquerque, New Mexico, 16 Sept. 1920.

151. NOSE FLUTE. *Tahiti, early 20th cent.*

2/0; bamboo; 303 mm. Gift of Jean Mignolet, Denver, Colorado, 5 Nov. 1920.

152. FLUTE IN C. *Proser, London, 1777-95.*

1 key; boxwood with brass fittings; 604 mm (without cap); Boehm's first flute; illus. (p. 4, fig. 2) DCM's *Flute & Flute-Playing*, 1922. Bought from Franz Rath, San Diego, California, 20 Sept. 1920.

153. FLUTE IN D-FLAT. *A. Buffet, jeune, Paris, mid-19th cent.*

6 keys, 3 rings (old system modified); 2 joints; cocus with silver fittings; 592 mm. Bought from John Finn, Essex, England, 24 Nov. 1920.

154. FENG HUANG HSIAO (NOTCHED FLUTE). *China, early 20th cent.*

5/1, tassel holes; bamboo stained black with bone ring and tassel; 545 mm. Gift

of John B. Taylor, Schenectady, New York, 4 Dec. 1920.

155. FLUTE FOOT JOINT. *Boehm & Mendler, Munich, c. 1870.*

4 keys (foot to B); grenadilla with silver fittings; 169 mm; illus. (p. 94, fig. 31, no. 3) DCM's *Flute & Flute-Playing*, 1922. Bought from George W. Haynes, New York, 3 Dec. 1920.

156. FLUTE FOOT JOINT. *Boehm & Mendler, Munich, c. 1870.*

4 keys (foot to B); cocus with silver fittings; 166 mm; illus. (p. 94, fig. 31, no. 5) DCM's *Flute & Flute-Playing*, 1922. Formerly owned by Carl Wehner. Bought from Anthony Wehner, Reading, Pennsylvania, 18 Dec. 1920.

157. FLUTE IN C. *Boehm & Mendler, Munich, c. 1878.*

Boehm system, open G-sharp; cocus with silver fittings; 665 mm; illus. (p. 94, fig. 31, no. 5 and p. 97, fig. 33) DCM's *Flute & Flute-Playing*, 1922. Bought from Anthony Wehner, Reading, Pennsylvania, 18 Dec. 1920.

158. OBOE IN C. *H. Richters, place unknown, early 18th cent. (?)*

3 keys (1 with double touch); ebony with silver keys and ivory rings and barrel; 568 mm. Bought from Friedrich's Music House, Grand Rapids, Michigan, 26 Jan. 1921.

159. FLUTE IN C. *Wm. S. Haynes Co., Boston, 1921.*

Boehm system, open G-sharp; silver; 673 mm; illus. (Plate xxvii) Girard's *La Flûte*, 1953. Made especially for this collection. Bought from Wm. S. Haynes Co., Boston, 18 Feb. 1921.

160. NOTCHED FLUTE. *Sudan, early 20th cent.*

5/1, tassel holes; bamboo; 573 mm. Bought from H. Macaulay Fitzgibbon, Greystones, Ireland, March 1921.

161. FLUTE IN C. *Th. Boehm & Mendler, Munich, 1877.*

Boehm system with Schleif key and special type closed G-sharp; foot to B;

silver with gold lip plate and gold plates on all keys; 675 mm; illus. (p. 94, fig. 31, no. 12 and p. 97, fig. 34) DCM's *Flute & Flute-Playing*, 1922. Made for General Daniel Macauley, former mayor of Indianapolis. Bought from A. Gastman, Chicago, 5 March 1921.

162. VERTICAL WHISTLE FLUTE. *North American Indian, late 19th cent.*

6/0; redwood with leather lip; 595 mm. Bought from C. H. Schroeder, Pasadena, California, 21 March 1921.

163. VERTICAL WHISTLE FLUTE. *North American Indian, late 19th cent.*

6/0; soft wood with lead lip, wrapped with thongs; 485 mm. Gift of Eckstein Case, California(?), 21 March 1921.

164. VERTICAL WHISTLE FLUTE. *North American Indian, early 20th cent.*

6/0; pottery with 3 bands of purple stains and bands of reddish-brown stains below embouchure and around finger holes; small bell at lower end; 200 mm. Gift of Eckstein Case, California(?), Apr. 1921.

165. FLUTE IN C. *Rudall, Carte & Co., London, c. 1877.*

Boehm system (Rockstro Model) with perforated keys, open G-sharp; silver; 640 mm. Bought from Baxter-Northup Co., Los Angeles, 22 Apr. 1921.

166-A. WHISTLE. *North American Indian, late 19th cent.*

Pitch E-flat<sup>3</sup>; pottery bird painted red, green, and blue; height 55 mm. Bought from C. H. Schroeder, Pasadena, California, 21 March 1921.

166-B. WHISTLE. *North American Indian, late 19th cent.*

Pitch C-sharp<sup>3</sup>; pottery bird(?) painted red; height 58 mm. Bought from C. H. Schroeder, Pasadena, California, 21 March 1921.

166-C. WHISTLE. *North American Indian, late 19th cent.*

Pottery bird with red, pink, blue, black and gold markings; height 83 mm. Bought from curio store, San Diego, California, Sept. 1923.

166-D. WHISTLE. *North American Indian, late 19th cent.*

Pitch F<sup>4</sup>; black pottery in the shape of a jug(?); height 35 mm. Bought from Whalen's Curio Store, Los Angeles, California, 21 March 1921.

167. SHAKUHACHI (END-BLOWN NOTCHED FLUTE). *Japan, early 20th cent.*

4/1; bamboo lacquered red inside with binding of string painted black; 545 mm. Bought from Hakubun-Do Co., Los Angeles, 17 March 1921.

168. SEITEKI (CROSS FLUTE). *Japan, early 20th cent.*

6/0, membrane hole, tassel holes; bamboo stained brown and lacquered red on inside with ivory tips and blue tassel; ivory top opens by a screw thread joint, for storing spare membrane paper; 720 mm. Bought from Hakubun-Do Co., Los Angeles, 17 March 1921.

169. TAKE-BUE OR SHINO-BUE (CROSS FLUTE). *Japan, early 20th cent.*

7/0; bamboo lacquered red inside with 12 narrow and wide windings of rattan; 425 mm. Bought from shop on 7th or 9th Street between Brandy and Webster, Oakland, California, Apr. 1921.

170. TAKE-BUE OR SHINO-BUE (CROSS FLUTE). *Japan, early 20th cent.*

7/0 bamboo lacquered red inside with 12 narrow and wide windings of rattan; 465 mm. Bought from shop on 7th or 9th Street between Brandy and Webster, Oakland, California, Apr. 1921.

171. TAKE-BUE OR SHINO-BUE (CROSS FLUTE). *Japan, early 20th cent.*

7/0; bamboo lacquered red inside with 12 narrow and wide windings of rattan; 490 mm. Bought from shop on 7th or 9th Street between Brandy and Webster, Oakland, California, Apr. 1921.

172. TAKE-BUE OR SHINO-BUE (CROSS FLUTE). *Japan, early 20th cent.*

7/0; bamboo stained brown and lacquered red on inside with 3 rattan wind-

ings; 410 mm. Bought from Hakubun-Do Co., Los Angeles, Apr. 1921.

173. TAKE-BUE OR SHINO-BUE (CROSS FLUTE). *Japan, early 20th cent.*

7/0; bamboo lacquered red inside with 3 rattan windings; lowest pitch A-flat<sup>1</sup>; 438 mm. Bought from Hakubun-Do Co., Los Angeles, Apr. 1921.

174. TAKE-BUE OR SHINO-BUE (CROSS FLUTE). *Japan, early 20th cent.*

7/0; bamboo lacquered red inside with 3 rattan windings painted black; lowest pitch G<sup>1</sup>; 453 mm. Bought from Hakubun-Do Co., Los Angeles, Apr. 1921.

175. PICCOLO IN D-FLAT. *Anon., late 19th cent.*

6/1; 1 key; wood stained black; 355 mm. Bought from pawn shop on North Clark Street, Chicago, 9 May 1921.

176. FLUTE IN C. *J. Mignolet, Paris and Denver, c. 1900.*

12 keys (Mignolet Model); foot to D<sup>1</sup>; 2 joints; cocus with silver fittings; 620 mm. Gift of J. Mignolet, Denver, Colorado, 11 May 1921.

177. FLUTE IN C. *Th. Boehm, Munich, c. 1860.*

Boehm system (experimental model with unique style clutches), open G-sharp; grenadilla with silver fittings; 655 mm; illus. (p. 94, fig. 31, no. 2) DCM's *Flute & Flute-Playing*, 1922. Bought from H. H. Honeyman, Detroit, 12 May 1921.

178. FLUTE IN C. *Emilio Piana, Florence, c. 1860-80.*

13 keys (Briccialdi system); 2 joints; silver, 646 mm. Bought from Louis Rossi, New York, 25 May 1921.

179. GIORGI FLUTE IN C. *Maino & Orsi, Milan, c. 1896.*

8/3 (Giorgi system); ebonite; 520 mm. Gift of Louis Rossi, New York, 25 May 1921.

180. FLUTE IN C. *A. G. Badger, New York, mid-19th cent.*

Boehm system, closed G-sharp; foot to B-flat; silver with silver and ebonite heads; 739 and 762 mm. Bought from Oliver Wheaton, Manchester, New Hampshire, 25 May 1921.

181. PICCOLO IN C. *Anon., late 19th cent.*

8 keys; foot to C<sup>2</sup>; 3 joints; grenadilla (head covered with silver tube) with silver fittings; 350 mm. Bought from pawn shop at Market and 2nd Streets, Philadelphia, 4 June 1921.

182. PICCOLO IN C. *J. C. Haynes & Co., Boston, 1897.*

Boehm system, open G-sharp; foot to C<sup>2</sup>; 2 joints; grenadilla with silver fittings; 355 mm. Made by William S. Haynes (then with the J. C. Haynes Co.) for Frank Wadsworth of Sousa's Band. Sousa wrote music for piccolo down to C<sup>2</sup>. Bought from C. C. Masterson, Cleveland, 6 June 1921.

183. FLUTE IN C. *V. Kohlert Sons, Graslitz, Austria, late 19th cent.*

6 keys; grenadilla with silver fittings; 587 mm. Bought from pawn shop on Ontario Street, Cleveland, 20 June 1921.

184. ENGLISH FLAGEOLET. *Bainbridge, London, 1825.*

6/1, 3 keys; boxwood with silver keys and ivory rings and beak; 463 mm; illus. (p. 154, fig. 51, no. 5) J. Finn's *The Recorder, Flute . . .*, 1911, and (p. 184) *Music Loan Exhibition Catalogue*, 1909. Formerly in the Southgate Collection. Bought from John Finn, Essex, England, 5 July 1921.

185. FLUTE IN C. *Anon., late 19th cent.*

8 keys; grenadilla(?) with silver fittings; 670 mm. Gift of S. G. McMeen, Columbus, Ohio, July 1920.

186. FLUTE IN C. *Anon., late 19th cent.*

13 keys; foot to B; cocus with silver fittings; 715 mm. Bought from Pierce's Old Book and Curio Store, Berkeley, California, Aug. 1920.

187. FLUTE IN C. *William Hall & Son, New York, 1848-75.*
- 8 keys; cocus with silver fittings; 652 mm. Bought from A. P. Miller, Oakland, California, July 1921.
188. FLUTE IN C. *Tulou, Paris, 1860.*
- 12 keys (Tulou model); grenadilla with silver fittings; 682 mm. Bought from Harry V. Baxter, Geneva, 2 Aug. 1921.
189. FLUTE IN E-FLAT. *Mollenhauer, Fulda, Germany, mid-19th cent.*
- 6 keys; boxwood with silver keys and ivory rings; 510 mm. Bought from Harry V. Baxter while at Geneva, 2 Aug. 1921.
190. FLUTE IN C. *Fr. Carl, Nürnberg, c. 1852.*
- 9 keys; boxwood with brass keys and ivory rings; 668 mm. Bought from Harry V. Baxter while at Nürnberg, 17 Aug. 1921.
191. PICCOLO IN C. *Anon., mid-19th cent.*
- 1 key; wood with brass key and ivory rings; 312 mm. Gift of McMillin Music Co., Cleveland, 21 Aug. 1921.
192. FLUTE IN C. *A. Rampone, Milan, and Stowasser, Budapest, late 19th cent.*
- Boehm system (Rampone model) with perforated keys, closed G-sharp; foot to B; silver; 710 mm. Body marked Rampone; head marked Stowasser. Bought from McMillin Music Co., Cleveland, 24 Aug. 1921.
193. FLUTE IN C. *Djalma Julliot, "La Couture," late 19th cent.*
- Boehm system (Julliot model) with 4 perforated keys, closed G-sharp; silver; 680 mm. Bought from James S. Gibson, Denver, Colorado, 26 Aug. 1921.
194. FLUTE IN C. *Collard, London, c. 1885.*
- Carte's 1867 patent with Collard's modifications (British Patent No. 4661, Collard August Drake, 1885); 2 joints; ebonite with silver fittings; 665 mm. Bought from F. A. Halls, New York, 7 Sept. 1921.
195. FLUTE IN C. *Franzeri, Guareña, Spain, early 19th cent.*
- 6 keys; boxwood with brass keys and ivory rings; 600 mm. Flute is stamped: "Franzeri/Guarene." Bought from G. Meriggioli, Milan, 14 Oct. 1921.
196. FLUTE IN C. *Anon., late 18th cent.*
- 1 key; boxwood with silver key and ivory rings; 615 mm. Bought from G. Meriggioli, Milan, 14 Oct. 1921.
197. FLUTE IN C. *U. Luvoni, Milan, early 19th cent.*
- 13 keys; foot to A; ebony with silver keys and ivory rings; 800 mm. Bought from G. Meriggioli, Milan, 14 Oct. 1921.
198. FLUTE IN A. *Anon., 1871.*
- 8 keys; boxwood stained black and varnished, with silver keys and ivory rings; 820 mm. One of three *flutes d'amour* built especially for the first performance of *Aida*. It was found during rehearsal, however, that they were less effective than ordinary flutes. Bought from G. Meriggioli, Milan, 14 Oct. 1921.
199. FLUTE IN C. *U. Luvoni, Milan, early 19th cent.*
- 10 keys; foot to B; ebony with silver fittings; 698 mm. Bought from G. Meriggioli, Milan, 14 Oct. 1921.
200. FLUTE IN C. *Frate Cugino Rampone, Milan, late 19th cent.*
- 17 keys, 2 rings; foot to A; ivory with silver fittings and enamelled cap and tip; 780 mm. Bought from G. Meriggioli, Milan, 14 Oct. 1921.
201. FLUTE IN G. *Th. Boehm & Mendler, Munich, 1862-81.*
- Boehm system, open G-sharp; silver with ebonite lip plate; 835 mm; illus. (p. 94, fig. 31, no. 15) DCM's *Flute & Flute-Playing*, 1922. Bought from William Keinath, Bayonne, New Jersey, 29 Oct. 1921.
202. WHISTLE. *North American Indian (Haida), 19th cent.*
- Two pieces of wood cemented together with black gum; 320 mm. Bought from



Harvey's Indian Curio Store, Albuquerque, New Mexico, 12 Nov. 1921.

203. DOUBLE WHISTLE. *North American Indian (Haida), 19th cent.*

Three pieces of wood cemented together with black gum; 2 pipes are of different pitch; 325 mm. Bought from Harvey's Indian Curio Store, Albuquerque, New Mexico, 12 Nov. 1921.

204. FLUTE IN E-FLAT. *Beltrami, Lugano, Switzerland, early 19th cent.*

6 keys; boxwood with brass keys and ebony rings; 513 mm. Bought from Baxter-Northup Co., Los Angeles, 26 Nov. 1921.

205. VERTICAL WHISTLE FLUTE. *Henry Johnson (North American Ute Indian), 1921.*

6/0; soft wood with holes burned in, lead lip, 7 wrappings of thong with fur still attached; 465 mm. Made especially for this collection. Bought from Frances Densmore, Red Wing, Minnesota, Dec. 1921.

206. FLUTE IN C. *W. Crosby, Boston, mid-19th cent.*

8 keys; cocus with silver fittings; 670 mm. Bought from Pierce's Old Book and Curio Shop, Berkeley, California, 15 Dec. 1921.

207. PANPIPES. *Source unknown.*

12 pipes; bamboo wrapped with leather strips; 300—110 mm. Bought from Pierce's Old Book and Curio Shop, Berkeley, California, 15 Dec. 1921.

208. VERTICAL WHISTLE FLUTE. *South Sea Islands, late 19th cent.*

6/0 (very small holes); heavy wood; 660 mm. Bought from E. Bloch Mercantile Co., San Francisco, 14 Dec. 1921.

209. WHISTLE. *North American Indian, late 19th cent.*

Fawn's leg bone or eagle's wing bone (?) with neck string, strips of thong and feather attached; pitch B<sup>2</sup>; 230 mm. Bought from E. Bloch Mercantile Co., San Francisco, 14 Dec. 1921.

210. SEITEKI (CROSS FLUTE). *Japan, early 20th cent.*

6/0, membrane hole, tassel holes; lowest pitch A<sup>1</sup>; bamboo lacquered red inside with red tassel; ivory top opens by a screw thread joint, for storing spare membrane paper; 765 mm. Bought from Aoki, San Francisco, 14 Dec. 1921.

211. SEITEKI (CROSS FLUTE). *Japan, early 20th cent.*

6/0, membrane hole, tassel holes; lowest pitch A<sup>1</sup>; bamboo lacquered red inside with ivory tips and blue tassel; ivory top opens by a screw thread joint, for storing spare membrane paper; 750 mm. Bought from Aoki, San Francisco, 14 Dec. 1921.

212. FENG HUANG HSIAO (NOTCHED FLUTE). *Chinatown, San Francisco, early 20th cent.*

5/1, tassel holes; bamboo stained brown with ivory tip and orange tassel; lowest pitch E<sup>2</sup>; 539 mm. Bought from Chew, Chong, Tai & Co., San Francisco, 14 Dec. 1921.

213-A. TI (CROSS FLUTE). *Chinatown, San Francisco, early 20th cent.*

6/0, membrane hole, tassel holes; bamboo stained black with ivory tips and aqua tassel; lowest pitch B-flat<sup>1</sup>; 596 mm. Bought from Chew, Chong, Tai & Co., San Francisco, 14 Dec. 1921.

213-B. TI (CROSS FLUTE). *Chinatown, San Francisco, early 20th cent.*

6/0, membrane hole, tassel holes; bamboo stained black with ivory tips and green tassel; lowest pitch B-flat<sup>1</sup>; 596 mm. Bought from Chew, Chong, Tai & Co., San Francisco, 14 Dec. 1921.

214. T'AI P'ING HSIAO (VERTICAL WHISTLE FLUTE). *Chinatown, San Francisco, early 20th cent.*

6/0, membrane hole, tassel holes; lowest pitch C<sup>2</sup>; bamboo stained black with ivory tips; 430 mm. Bought from Chew, Chong, Tai & Co., San Francisco, 14 Dec. 1921.

215. FLUTE IN C. *William Henry Potter, London, 1801-17.*

7 keys; foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 661 mm (without

- cap). Bought from William Keinath, Bayonne, New Jersey, 2 Jan. 1922.
216. FLUTE IN C. *Rudall & Rose, London, 1821-27.*  
8 keys with Nicholson holes; boxwood with silver fittings; 650 mm. Bought from J. Clayton Boyes, Bushey, England, 2 Jan. 1922.
217. FLUTE IN C. *Longman & Broderip, London, 1779-1784.*  
6 keys; foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 665 mm. Bought from J. Clayton Boyes, Bushey, England, 2 Jan. 1922.
218. FLUTE IN C. "S," *place unknown, early 19th cent.*  
4 keys; 2 upper middle joints; boxwood with silver keys and ivory rings; 600 and 622 mm. Bought from Julius Heisinger, Oconto, Wisconsin, 2 Jan. 1922.
219. FLUTE IN C. *Louis Lot, Paris, late 19th cent.*  
Boehm system with perforated keys, closed G-sharp; silver with gold lip plate; 666 mm. Bought from Christensen & Co., Boston, 20 Jan. 1922.
220. PICCOLO IN C. *U. Luvoni, Milan, mid-19th cent.*  
6 keys; ebony with silver fittings; 312 mm. Bought from G. Meriggioli, Milan, 1 Feb. 1922.
221. PICCOLO IN D-FLAT. *J. Ziegler, Vienna, mid-19th cent.*  
6 keys; ebony with silver fittings; 296 mm. Bought from G. Meriggioli, Milan, 1 Feb. 1922.
222. PICCOLO IN D-FLAT. *P. Maino, Milan, mid-19th cent.*  
5 keys; boxwood with brass keys and black horn rings; 294 mm. Bought from G. Meriggioli, Milan, 1 Feb. 1922.
223. GIORGI FLUTE IN C. *Maino & Orsi, Milan, c. 1900.*  
7/3, 4 keys (Giorgi system); ebonite with silver fittings; 2 joints; 615 mm. Bought from G. Meriggioli, Milan, 1 Feb. 1922.
224. FLUTE IN C. *Sternberg, Budapest, early 19th cent.*  
4 keys; ebony with silver keys and ivory rings; 5 joints; 612 mm. Bought from G. Meriggioli, Milan, 1 Feb. 1922.
225. FLUTE IN C. *P. Maino, Milan, mid-19th cent.*  
9 keys; foot to B; boxwood with brass keys and black horn rings; 710 mm. Bought from G. Meriggioli, Milan, 1 Feb. 1922.
226. FLUTE IN C. *F. Tabard, Lyon, c. 1820-48.*  
4 keys; ebony with silver keys and ivory rings; 618 mm (without cap). Bought from G. Meriggioli, Milan, 1 Feb. 1922.
227. FLUTE IN C. *Potter Senior, London, late 18th cent.*  
6 keys; foot to C<sup>1</sup>; 3 upper middle joints; boxwood with silver keys and ivory rings; 663, 675 and 683 mm. Bought from G. Meriggioli, Milan, 1 Feb. 1922.
228. WALKING STICK FLUTE IN C. *Scalvini, Brescia, Italy, early 19th cent.*  
1 key; boxwood (cut to look like bamboo) with brass key and black ebony knob; 936 mm. Bought from G. Meriggioli, Milan, 1 Feb. 1922.
229. FLUTE IN C. *J. Ziegler, Vienna, early 19th cent.*  
12 keys; foot to B; boxwood with silver keys and ivory rings; 705 mm (without cap). Bought from G. Meriggioli, Milan, 1 Feb. 1922.
230. FLUTE IN C. *J. Ziegler(?), Vienna(?), mid-19th cent.*  
17 keys; foot to G; ivory with silver fittings; with recurved foot joint; 705 mm. Bought from G. Meriggioli, Milan, 1 Feb. 1922.
231. FLUTE IN C. *S. Koch, Vienna, mid-19th cent.*  
15 keys; foot to G; ebony with silver fittings; 880 mm. Bought from G. Meriggioli, Milan, 1 Feb. 1922.
232. BARITONE ALBISIPHON IN C. *Abelardo Albisi, Milan, c. 1891.*  
Boehm system, closed G-sharp; foot to B; 3 joints; silver; 980 mm; illus. (Plate

xxvii) Girard's *La Flûte*, 1953. Especially built for Mascagni's opera *La Parisina* (see also Nos. 1342 and 1345). Bought from G. Merigglioli, Milan, 1 Feb. 1922.

233. FLUTE IN C. *Th. Boehm & Mendler, Munich, c. 1877.*

Boehm system with Schleif key, open G-sharp; foot to B; silver with gold lip plate; 698 mm; illus. (p. 94, fig. 31, no. 14) DCM's *Flute & Flute-Playing*, 1922. Bought from G. Merigglioli, Milan, 1 Feb. 1922.

234. FLUTE IN C. *Rudall, Carte & Co., London, c. 1878.*

Radcliff system; cocus with silver fittings; 653 mm. Bought from Emma Pendlebury, Fall River, Massachusetts, 6 Feb. 1922.

235. WHISTLE. *North American Indian (Apache), 19th cent.*

Carved wood with horned toad(?) carved on lower end; feather attached; 298 mm. Bought from George R. Moore, Janesville, Wisconsin, 11 Feb. 1922.

236. FLUTE IN C. *William Card(?)*, London(?), mid-19th cent.

Card's system; DCM: "Keys evidently have been modified by experiment. Now is closed G-sharp; probably once had Dorus G-sharp. Once had a D key (or special C-sharp); hole now filled with wood. Foot keys in Boehm style of 1832." Grenadilla with silver fittings; 630 mm. Bought from J. Clayton Boyes, Bushey, England, 17 Feb. 1922.

237. WHISTLE. *North American Indian, 19th cent.*

Bone bound with rattan and with thong loop attached; 163 mm. Bought from George R. Moore, Janesville, Wisconsin, 20 Feb. 1922.

238. VERTICAL WHISTLE FLUTE. *North American Indian (Pilager, Minnesota), 19th cent.*

6/0; wood with holes burned in, flue cover is red pipestone rattlesnake's tail fastened on with snake skin, thong wrapping at lower end; 410 mm. Bought

from George R. Moore, Janesville, Wisconsin, 22 Feb. 1922.

239. CROSS FLUTE. *North American Indian (Seminole), 19th cent.*

6/0; cane or bamboo with rattan wrappings; 484 mm. Bought from George R. Moore, Janesville, Wisconsin, 22 Feb. 1922.

240. FLUTE IN C. *Boehm & Greve, Munich, 1828-32.*

9 keys (Boehm's 1829 system); cocus with silver fittings; 668 mm; illus. (p. 11, fig. 5) DCM's *Flute & Flute-Playing*, 1922. Bought from Arthur Gemeinhardt, Markneukirchen, Germany, 23 Feb. 1922.

241. VERTICAL WHISTLE FLUTE. *North American Indian, 19th cent.*

6/0; wood with lead lip and 10 wrappings of thong, row of 12 red dots near bottom; 345 mm. Bought from George R. Moore, Janesville, Wisconsin, 14 March 1922.

242. VERTICAL WHISTLE FLUTE. *John Spear (North American Winnebago Indian), 1922.*

6/0; wood with lead lip and ornamented with lead insets; 520 mm. Made especially for this collection. Bought from Oliver La Mere, Winnebago, Nebraska, 16 March 1922.

243. WHISTLE. *John Spear (North American Winnebago Indian), 1922.*

Pitch G-sharp<sup>2</sup>; cane with thong holding paper for upper lip; 290 mm. Made especially for this collection. Bought from Oliver La Mere, Winnebago, Nebraska, 16 March 1922.

244. WHISTLE. *North American Indian (Winnebago), late 19th cent.*

Eagle wing bone(?); 202 mm. Bought from Oliver La Mere, Winnebago, Nebraska, 16 March 1922.

245. END-BLOWN FLUTE. *Rhodesia, South Africa, 19th cent.*

3/0; stained cane with incised decoration; 260 mm. Gift of Philip P. Quayle, Washington, 28 March 1922.

246. FLUTE IN C. *T. Prowse, London, mid-19th cent.*  
 8 keys ("C. Nicholson's Improved"); cocus with silver lip plate and silver fittings; 655 mm. Bought from Percy M. Teasdale, Bushey, England, 29 March 1922.
247. VIVO SHU (NOSE FLUTE). *Papeete, Tahiti, early 20th cent.*  
 6/0; thin bamboo with holes burned in; 297 mm. Gift of Jean Mignolet, Denver, Colorado, 8 Apr. 1922.
248. VIVO SHU (NOSE FLUTE). *Papeete, Tahiti, early 20th cent.*  
 3/0; thin bamboo with holes burned in; lowest pitch B<sup>1</sup>; 273 mm. Gift of Jean Mignolet, Denver, Colorado, 8 Apr. 1922.
249. FLUTE IN C. *Monzani, London, 1809.*  
 7 keys; foot to C<sup>1</sup>; with tuning washer (British Patent No. 3074, Monzani, 1807); cocus with silver fittings; 661 mm. One of a set of 3 flutes in G (No. 251), E-flat (No. 250), and C. Bought from J. Clayton Boyes, Bushey, England, 8 May 1922.
250. FLUTE IN E-FLAT. *Monzani & Co., c. 1815.*  
 6 keys; cocus with silver fittings; 534 mm. See No. 249. Bought from J. Clayton Boyes, Bushey, England, 8 May 1922.
251. FLUTE IN G. *Monzani & Co., c. 1815.*  
 5 keys; cocus with silver fittings; 755 mm. See No. 249. Bought from J. Clayton Boyes, Bushey, England, 8 May 1922.
252. FLUTE IN C. *Gautrot-Marguet, Paris, c. 1868.*  
 Boehm system, open G-sharp; flute has large rectangular tone holes and keys (British Patent No. 2943, Steckel, 1868); silver; 2 joints; 650 mm. Bought from W. Alan Kennedy, Montreal, May 1922.
253. PICCOLO IN A-FLAT. *Maino e Orsi, Milan, c. 1920.*  
 6 keys; wood polished black with silver fittings; 387 mm. Bought from G. Meriggioli, Milan, 24 May 1922.
254. FLUTE IN C. *Anon., c. 1880.*  
 Boehm system, closed G-sharp; experimental flute(?), all body keys may be removed by drawing out only one rod; 2 joints; phosphor-bronze with silver lip plate and silver fittings; 635 mm. Bought from G. Meriggioli, Milan, 24 May 1922.
255. FLUTE IN C. *Jul. Heinr. Zimmermann, St. Petersburg, late 19th cent.*  
 13 keys; foot to B; grenadilla with ivory head and silver fittings; 700 mm; flute has 2 silver rings (7.7 mm) for inside of barrel joint and outside of body joint to lower the pitch. Bought from G. Meriggioli, Milan, 24 May 1922.
256. FLUTE IN C. *S. Koch, Vienna, mid-19th cent.*  
 14 keys; foot to G; ebony with silver fittings; with recurved foot joint; 705 mm. Bought from G. Meriggioli, Milan, 24 May 1922.
257. FLUTE IN C. *Anon., London, mid-19th cent.*  
 8 keys (Nicholson holes); cocus(?) with silver lip plate and silver fittings; 660 mm. Bought from G. Meriggioli, Milan, 22 May 1922.
258. FLUTE IN C. *A. Rampone, Milan, late 19th cent.*  
 13 keys; foot to B; double-walled silver tube engraved at embouchure and finger holes; 710 mm. Bought from G. Meriggioli, Milan, 24 May 1922.
259. FLUTE IN C. *H. Wild, Zurich, 1855.*  
 10 keys; cocus with silver fittings; 663 mm. Bought from G. Meriggioli, Milan, 24 May 1922.
260. FLUTE IN C. *G. Esposito(?), Naples(?), c. 1890.*  
 10 keys, 2 rings (Piazza model ?); grenadilla with silver fittings; 670 mm. Bought from G. Meriggioli, Milan, 24 May 1922.
261. FLUTE IN C. *Guerini, Mantua, early 19th cent.*  
 5 keys; boxwood with brass keys and black horn rings; 606 mm (without cap). Gift of G. Meriggioli, Milan, 24 May 1922.

262. FLUTE IN C. *Rudall, Rose, Carte & Co., London, c. 1860.*

Carte's 1851 patent modified; silver; 641 mm. Bought from William R. Gibbs, Boston, 7 June 1922.

263. FLUTE IN C. *Th. Boehm & Mender, Munich, 1862-81.*

Boehm system, open G-sharp, Schleif key; silver with silver head (with gold lip plate) and wood head, gold plates on all keys; foot to B; 682 mm; illus. (Plate VIII) Girard's *La Flûte*, 1953. Bought from Paul H. Siebeneichen, Jamaica, New York, 12 June 1922.

264. PITCH PIPE. *Anon., late 18th cent.*

Organ pipe style with cylindrical plunger; range D<sup>1</sup>-C<sup>2</sup>; mahogany body with maple(?) mouthpiece; 345 mm. Bought from G. S. Beaman, Princeton, Massachusetts, 12 July 1922.

265. PITCH PIPE. *Anon. 1756(?)*.

Rectangular shape (140 x 78 x 25 mm); range F<sup>1</sup>-A<sup>2</sup>; mahogany(?). Bought from G. W. Beaman, Princeton, Massachusetts, 12 July 1922.

266. FLUTE IN C. *Anon., early 19th cent.*

4 keys; boxwood with brass keys and black horn rings; 603 mm. Bought from G. W. Beaman, Princeton, Massachusetts, 12 July 1922.

267. FLUTE IN C. *Herman Wrede, London, 1829-46.*

6 keys; foot to C<sup>1</sup>; boxwood with silver keys; 670 mm. Bought from G. W. Beaman, Princeton, Massachusetts, 12 July 1922.

268. PICCOLO IN D-FLAT. "S," *place unknown, early 19th cent.*

1 key; boxwood with brass key and ivory rings; 299 mm. Bought from G. W. Beaman, Princeton, Massachusetts, 12 July 1922.

269. FLUTE IN C. *Stanesby Junior, London, mid-18th cent.*

1 key; ivory with silver fittings; 616 mm; DCM replaced the 2 middle joints

with those from another flute. Bought from G. W. Beaman, Princeton, Massachusetts, 12 July 1922.

270. FLUTE IN C. *Bühner & Keller, Strasbourg, late 18th cent.*

1 key; boxwood with silver key and ivory rings; 615 mm (without cap). Bought from Victor R. Slecter, Bloomington, Illinois, 18 July 1922.

271. WALKING STICK FLUTE IN C. *Anthony, Philadelphia, 1794-1830.*

4 keys; wood stained brown and black and covered with "thorns"; ivory cap; 957 mm. Gift of W. P. Harrell, Portsmouth, Virginia, 24 Aug. 1922.

272. SHAKUHACHI (END-BLOWN NOTCHED FLUTE). *Japan, 1918.*

4/1; bamboo lacquered black inside; 545 mm. DCM: "It is presumably a fine professional instrument of the highest grade." Gift of T. C. Mendenhall, Ravenna, Ohio, 27 Aug. 1922.

273. DEER OR MOOSE CALL (REED-BLOWN PIPE). *North American Indian (Chippewa), 19th cent.*

Sumac; 294 mm. Bought from Frances Densmore, Red Wing, Minnesota, 15 Sept. 1922.

274. CLARINET IN C. *Graves & Co., Winchester, New Hampshire, 1852-63.*

5 keys; boxwood with brass keys and ivory rings; 598 mm. Bought from G. W. Beaman, Princeton, Massachusetts, 12 July 1922.

275. CLARINET IN C. *Herman Wrede, London, 1829-46.*

8 keys; boxwood with brass keys and ivory rings; 527 mm (with mouthpiece). Bought from G. W. Beaman, Princeton, Massachusetts, 12 July 1922.

276. KUAN (DOUBLE-REED PIPE). *Chinatown, San Francisco, 19th cent.*

7/1; bamboo with silver rings; 230 mm. Bought in Chinatown, San Francisco, 16 Aug. 1920.

277. FLUTE IN C. *Rudall, Carte & Co., London, 1880.*

8 keys plus 6 covered finger holes (1 perforated); cocus with silver fittings; 655 mm. Bought from J. Clayton Boyes, Bushey, England, Sept. 1922.

278. FLUTE IN E-FLAT. *J. J. Rickers, New York, c. 1825.*

4 keys; boxwood with brass keys and ivory rings; 520 mm. Bought from Charles Kolb, New York, Sept. 1922.

279. PICCOLO IN C. *Maino e Orsi, Milan, c. 1922.*

6 keys; ivory with silver fittings; 320 mm. Bought from G. Meriggioli, Milan, 10 Oct. 1922.

280. PICCOLO IN C. *A. Rampone, Milan, early 20th cent.*

7 keys; double-walled silver tube; 315 mm. Bought from G. Meriggioli, Milan, 10 Oct. 1922.

281. UNFINISHED FLUTE(?). *Anon., 19th cent.*

Instrument in early stage of construction with central holes burned into both ends to a depth of about 30 mm; light-colored wood; 535 mm. Formerly in the Southgate Collection. Bought from Harold Reeves, London, 24 Oct. 1922.

282. NAY (END-BLOWN FLUTE). *Cairo, Egypt, c. 1890.*

6/0; bamboo ornamented with birds, flowers and other designs; 591 mm; illus. (p. 151, fig. 49, no. 4) J. Finn's *The Recorder, Flute . . .*, 1911. Formerly in the Southgate Collection. Bought from Harold Reeves, London, 24 Oct. 1922.

283. END-BLOWN PIPE. *Hungary(?)*, late 19th cent.

7/1; cane; 786 mm. Formerly in the Southgate Collection. Bought from Harold Reeves, London, 24 Oct. 1922.

284. END-BLOWN PIPE. *Rumania*, late 19th cent.

6/1; wood painted with red and green bands at each end; 338 mm; illus. (p. 151, fig. 49, no. 6) J. Finn's *The Recorder*,

*Flute . . .*, 1911. Formerly in the Tap-house and Southgate Collections. Bought from Harold Reeves, London, 24 Oct. 1922.

285. NOTCHED FLUTE. *Southern Sudan, late 19th cent.*

4/0; bamboo covered with leather, oiled to prevent wood from splitting—covered with 6 bands of tin; band of snake skin at upper end; with beads and cords for carrying; tin from old cans marked "Best Petroleum"; 595 mm. ". . . sent me by my nephew, who happens to be a high official at Khartoum, and had to make a long journey to the South of the Soudan to punish the Niam-Niam tribe for making meals of our labourers working on the Uganda railway" (Southgate: *The Evolution of the Flute*, 1908, p. 163.). Formerly in the Southgate Collection. Bought from Harold Reeves, London, 24 Oct. 1922.

286. NOTCHED FLUTE. *Southern Sudan, late 19th cent.*

4/0; bamboo covered with leather, oiled to prevent wood from splitting—covered with 6 bands of tin; band of snake skin at upper end; with beads and cords for carrying; tin from old cans marked "Best Petroleum" 590 mm. Formerly in the Southgate Collection. Bought from Harold Reeves, London, 24 Oct. 1922.

287. NOTCHED FLUTE. *Southern Sudan, late 19th cent.*

2/0; bamboo covered with leather, oiled to prevent wood from splitting—covered with 4 bands of tin; band of snake skin at upper end; with beads and leather strap for carrying; tin from old cans marked "Best Petroleum"; 470 mm. Formerly in the Southgate Collection. Bought from Harold Reeves, London, 24 Oct. 1922.

288. NOTCHED FLUTE. *Nande, West Uganda (Ruenzori), late 19th cent.*

4/0; bamboo with tuft of grey hair attached at lower end; 390 mm; illus. (p. 126, fig. 37 and p. 154, fig. 51, no. 1) J. Finn's *The Recorder, Flute . . .*, 1911. Formerly in the Southgate Collection. Bought from Harold Reeves, London, 24 Oct. 1922.

289. ARGHUL (DOUBLE PIPE WITH IDIOGLOTTAL BEATING REEDS). *Egypt, late 19th cent.*

Chanter: 6/0; drone; bamboo bound with string; 313 mm (chanter) and 584 mm (drone). Formerly in the Southgate Collection. Bought from Harold Reeves, London, 3 Nov. 1922.

290. ARGHUL (DOUBLE PIPE WITH IDIOGLOTTAL BEATING REEDS). *Egypt, late 19th cent.*

Chanter: 6/0; drone, bamboo bound with string; 232 mm (chanter) and 275 mm (drone). Formerly in the Southgate Collection. Bought from Harold Reeves, London, 3 Nov. 1922.

291. ZUMMARAH (DOUBLE PIPE WITH IDIOGLOTTAL BEATING REEDS). *Egypt, late 19th cent.*

4/0 (both pipes); bamboo bound with string; both 228 mm (without reeds). DCM: "This specimen is probably a 'copy' by Dr. Southgate." Formerly in the Southgate Collection. Bought from Harold Reeves, London, 3 Nov. 1922.

292. ZUMMARAH (DOUBLE PIPE WITH IDIOGLOTTAL BEATING REEDS). *T. Lea Southgate, London, 1890.*

5/0 (both pipes); bamboo; 317 mm. Copy of an instrument found in the Coptic cemetery at Gurob in the Fayoum Province by Mr. Flinders Petrie and dated about 600 A.D. Described (pp. 23, 26-27) Southgate's "On a Pair of Ancient Egyptian Double-Flutes," PMA, 1890. Formerly in the Southgate Collection. Bought from Harold Reeves, London, 3 Nov. 1922.

293. CHALUMEAU. *T. Lea Southgate, London, late 19th cent.*

7(8)/1; mahogany; 256 mm. Lowest hole is duplicated for either right or left little finger. Extra hole is to be filled. Copy by Southgate after instrument owned by Galpin. Formerly in the Southgate Collection. Bought from Harold Reeves, London, 3 Nov. 1922.

294. VERTICAL WHISTLE FLUTE(?). *Nicobar Islands, Indian Ocean, late 19th cent.*

7/1 (plus 1/1 plugged holes); reed stained light brown; palm leaf tied with

string near hole at upper end; 357 mm. There is no sign of a flue. Illus. (p. 154, fig. 51, no. 4) J. Finn's *Recorder, Flute* . . ., 1911. Formerly in the Taphouse and Southgate Collections. Bought from Harold Reeves, London, 3 Nov. 1922.

295. DOUBLE VERTICAL WHISTLE FLUTE. *Albania, late 19th cent.*

Right tube: 6/0; left tube: drone (1 hole on side at lower end for changing pitch of drone?); light colored wood; 240 mm. Formerly in the Southgate Collection. Bought from Harold Reeves, London, 3 Nov. 1922.

296. VERTICAL WHISTLE FLUTE. *Hungary, late 19th cent.*

6/0; wood with holes burned in; 432 mm. Formerly in the Southgate Collection. Bought from Harold Reeves, London, 3 Nov. 1922.

297. VERTICAL WHISTLE FLUTE. *Tunis, late 19th cent.*

5/0; bamboo ornamented with incised lines; 330 mm. Formerly in the Southgate Collection. Bought from Harold Reeves, London, 3 Nov. 1922.

298. RYUTEKI (CROSS FLUTE). *Japan, late 19th cent.*

7/0; bamboo(?) stained dark brown and bound with rattan except at finger holes; 396 mm. Formerly in the Southgate Collection. Bought from Harold Reeves, London, 3 Nov. 1922.

299. WHISTLE. *Source unknown, late 19th cent.*

Antelope, goat or(?) horn fitted with a leather-covered gourd tied on with snakeskin and leather; 330 mm. Formerly in the Southgate Collection. Bought from Harold Reeves, London, 3 Nov. 1922.

300. VERTICAL WHISTLE FLUTE. *Amazon, Brazil, late 19th cent.*

3/0; bone with beetle wings attached; 225 mm. Formerly in the Southgate Collection. Bought from Harold Reeves, London, 3 Nov. 1922.

301. FLUTE IN A. *Monzani & Co., London, c. 1815.*  
6 keys; foot to A; boxwood with silver fittings; 787 mm. Bought from J. Clayton Boyes, Bushey, England, 16 Nov. 1922.
302. PICCOLO IN C. *Anon., late 19th cent.*  
1 key; rosewood with silver fittings; 290 mm. Bought from Baxter-Northup Co., Los Angeles, 2 Dec. 1922.
303. FIFE IN B-FLAT. *Firth, Son & Co., New York, 1865-67.*  
1 key; 3 joints; boxwood with brass key; 350 mm. Bought from Baxter-Northup Co., Los Angeles, 2 Dec. 1922.
304. FLUTE IN A-FLAT. *Anon., London, late 19th cent.*  
1 key; rosewood with silver fittings; 380 mm. Bought from Baxter-Northup Co., Los Angeles, 2 Dec. 1922.
305. FLUTE IN G. *Th. Boehm, Munich, 1847-62.*  
Boehm system, open G-sharp, Schleif key; silver; 863 mm; Boehm's No. 4; illus. (Plate XIII) Girard's *La Flûte*, 1953. Bought from Baxter-Northup Co., Los Angeles, 13 Dec. 1922. (See illus.)
306. FLUTE IN C. *Boehm & Mendler, Munich, c. 1870.*  
Boehm system, open G-sharp, Schleif key; grenadilla (thinned with raised edges at tone holes and raised embouchure) with silver fittings; 665 mm. Bought from Eugene Weinberger, New York, 23 Dec. 1922.
307. FLUTE IN C. *Ziegler(?) , Vienna (?) , c. 1820-47.*  
14 keys; foot to B; ivory with silver fittings; rings are gilt engraved, ivory cap carved in form of a crown, gold insets at finger holes, key cups enamelled in light and dark blue; 730 mm; illus. (Plate XIV) Girard's *La Flûte*, 1953. Flute belonged to Count Istvan Széchenyi (1791-1860), an outstanding Hungarian soldier and statesman. Bought from Eugene Weinberger, New York, 23 Dec. 1922. (See illustration.)
308. FLUTE IN C. *Clement Masson, "La Couture," 1922.*  
Bourne-Julliot system (Boehm system with extra keys); 4 perforated keys; silver; 672 mm. Made especially for this collection. Bought from Clement Masson, La Couture, 4 Jan. 1923.
309. FLUTE IN C. *Clementi & Co., London, early 19th cent.*  
6 keys; foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 668 mm. Bought from J. Clayton Boyes, Bushey, England, 27 Jan. 1923.
310. FLUTE IN C. *Boosey & Co., London, 1872.*  
R. S. Pratten's Perfected system (15 keys—2 perforated); cocus with silver fittings; 670 mm. Bought from J. Clayton Boyes, Bushey, England, 27 Jan. 1923.
311. FLUTE IN C. *P. Piana, Milan, early 19th cent.*  
1 key; boxwood stained black with brass key and black horn(?) rings; 607 mm. Bought from G. Meriggioli, Milan, 7 Feb. 1923.
312. PICCOLO IN C. *Rampone & Reni, Milan, c. 1906.*  
9 keys plus 6 covered finger holes; foot to D<sup>2</sup>; cocus with silver fittings; 318 mm. Flute is marked "A. Casoli/Milano." DCM: "Casoli has a 'Music Store,' is not a real maker, made by Rampone & Reni." Bought from G. Meriggioli, Milan, 7 Feb. 1923.
313. FLUTE IN C. *Thibouville-Cabart, Paris, mid-19th cent.*  
Boehm's 1832 system, closed G-sharp; grenadilla with silver fittings; 678 mm. Bought from G. Meriggioli, Milan, 7 Feb. 1923.
314. FLUTE IN E-FLAT. *Emilio Piana, Florence, c. 1875.*  
Briccialdi system (old system modified); 2 joints; silver; 550 mm. Flute is marked "Brizzi e Niccolai/Firenze/E. Piana Fabb'c." Bought from G. Meriggioli, Milan, 7 Feb. 1923.



315. FLUTE IN C. *G. Esposito, Naples, late 19th cent.*  
8 keys, 2 rings (Piazza model?); enamelled black wood with silver fittings; 670 mm. Bought from G. Meriggioli, Milan, 7 Feb. 1923.
316. FLUTE IN C. *J. M. Camp, Litchfield, Connecticut, c. 1830.*  
4 keys; boxwood with silver keys and ivory rings; 610 mm. Gift of R. E. Williams, New York, 7 Feb. 1923.
317. FLUTE IN C. *Drouet, London, 1818.*  
8 keys; ivory with silver fittings; 659 mm. Bought from J. Clayton Boyes, Bushey, England, 10 March 1923.
318. NOSE FLUTE. *New Caledonia, late 19th cent.*  
No finger holes; bamboo incised with zigzag lines and wound with snakeskin in 5 places; 957 mm. Bought from George R. Moore, Jamesville, Wisconsin, 20 March 1923.
319. WHISTLE. *North American Indian (Sioux), late 19th cent.*  
Bone with neck cord of thong wrapped with red and green porcupine quill strings; 196 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 12 Apr. 1923.
320. FLUTE IN C. *Rudall, Carte & Co., London, 1883.*  
Welch's model (modified old system); ebonite with silver fittings; 668 mm. Bought from John Finn, Essex, England, 26 Apr. 1923.
321. FLUTE IN E-FLAT. *Henry Potter, London, c. 1858-1875.*  
6 keys; grenadilla with silver fittings; 500 mm. Gift of Edward Entwistle, Plainville, Mass., 26 Apr. 1923.
322. FLUTE IN C(?) (PART ONLY). *Metzler, London, 1816-1821.*  
Head, barrel, and upper body joints; 3 keys (probably 8); ivory with silver fittings; flute is also marked "Townsend/Manchr"; a dealer in Manchester. Bought from William Powell, Birmingham, England, 26 Apr. 1923.
323. FLUTE IN C. *Rudall & Rose, London, c. 1850-54.*  
8 keys; rosewood with silver fittings; 655 mm. Bought from J. Clayton Boyes, Bushey, England, 26 Apr. 1923.
324. FLUTE IN C. *Rudall & Rose, London, c. 1837-47.*  
8 keys; boxwood with inset silver lip plate, silver keys, and ivory rings; 660 mm. Bought from J. Clayton Boyes, Bushey, England, 26 Apr. 1923.
325. TENOR RECORDER IN C. *Anon., 18th cent.*  
1 key with double touch; boxwood with brass key and ivory rings; 710 mm. Bought from Sumner Healey, New York, 25 Apr. 1923.
326. ALTO RECORDER IN F. *L. Hotteterre, Paris(?) , late 17th cent.*  
Boxwood with ivory rings and beak; 525 mm. Bought from Sumner Healey, New York, 25 Apr. 1923.
327. ALTO RECORDER IN F. *Joan Panormo, Naples, 18th cent.*  
Ivory; 490 mm. Bought from Sumner Healey, New York, 25 Apr. 1923.
328. RECORDER IN A(?). *S. Schvechbaur, place unknown, mid-18th cent.*  
Ivory; 5 pieces (barrel and foot screw on); 448 mm. Bought from Sumner Healey, New York, 25 Apr. 1923.
329. SOPRANINO RECORDER IN F. *Anon., 18th cent.*  
Ivory with one double hole; 263 mm. Bought from Sumner Healey, New York, 25 Apr. 1923.
330. FLUTE IN C. *Scherer, Paris(?) , c. 1764.*  
1 key; ivory with silver key; 634 mm. Bought from Sumner Healey, New York, 25 Apr. 1923.
331. FLUTE IN C. *Potter, London, late 18th cent.*  
6 keys; ivory with silver fittings; foot to C<sup>2</sup>; 665 mm. Bought from Sumner Healey, New York, 25 Apr. 1923.

332. VERTICAL WHISTLE FLUTE. *Anon., 19th cent.*

6/0; white porcelain with blue and gilt design; 310 mm. Bought from Sumner Healey, New York, 25 Apr. 1923.

333. CROSS FLUTE IN C. *Anon., 19th cent.*

6/0; white porcelain with blue and gilt design; 320 mm. Bought from Sumner Healey, New York, 25 Apr. 1923.

334. FRENCH FLAGEOLET. *Martin, Paris, mid-19th cent.*

Boxwood; 223 mm. Bought from Sumner Healey, New York, 25 Apr. 1923.

335. TRIPLE FLAGEOLET (FRENCH). *Collin, Paris, 1780-1820.*

Chanter: 4/2; right tube: drone; left tube: 1 key(?); boxwood; 375 mm. Bought from Sumner Healey, New York, 25 Apr. 1923.

336. END-BLOWN FLUTE. *Corinth, Greece, c. 1912.*

6/1; wood bound with wire at lower end; 311 mm; obtained from a shepherd boy who was playing this pipe at the Acropolis. Gift of John D. Batchelder, Washington, 22 Apr. 1923.

337. FLUTE IN C. *William Henry Potter, London, 1809-17.*

6 keys; foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 668 mm. Bought from William Powell, Birmingham, England, 17 May 1923.

338. FLUTE in C. *G. French, London, 1840-55.*

8 keys; curly wood with silver fittings; 648 mm. Bought from William Powell, Birmingham, England, 17 May 1923.

339. FLUTE-FLAGEOLET IN C. *Bainbridge, London, 1808-31.*

6 keys; flute and flageolet head joints; boxwood with silver keys and ivory rings and beak; 650 and 659 mm; illus. (Plate VIII) Girard's *La Flûte*, 1953. Bought from William Powell, Birmingham, England, 17 May 1923.

340. FLUTE IN C. *Rudall, Carte & Co., Ltd., London, c. 1913.*

Carte's 1867 patent; cocus with silver fittings; 655 mm. Bought from Louis Rossi, New York, 31 May 1923.

341. PICCOLO IN D-FLAT. *Lefèvre, Paris, c. 1875-80.*

6 keys; cocus with silver fittings; 325 mm. Gift of William Powell, Birmingham, England, 15 June 1925.

342. FLUTE IN C. *Clinton & Co., London, c. 1850.*

8 keys, 2 rings (Clinton's 1848 patent system); cocus with silver fittings; 650 mm. Bought from William Powell, Birmingham, England, 15 June 1925.

343. FLUTE IN C. *J. Wood, London, 1804(?)*.

8 keys; ebony with silver fittings; 670 mm. Flute marked "patent" on slide joint and "A. Ashe, Opera London. 1804" on head. DCM: "This flute seems later than 1804; 'patent' was issued in 1814!" Bought from William Powell, Birmingham, England, 15 June 1923.

344. PICCOLO IN C. *Boehm & Mendler, Munich, 1862-81.*

Boehm system, open G-sharp; grena-dilla with silver fittings; 314 mm. Bought from Anthony Wehner, Reading, Pennsylvania, 22 June 1923.

345. WHISTLE. *North American Indian (Sioux), late 19th cent.*

Leg bone of a fawn or eagle wing bone(?); pitch C-sharp<sup>3</sup>; 212 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 22 June 1923.

346. PICCOLO IN A-FLAT. *J. & H. Meacham, Albany, New York, c. 1824.*

1 key; boxwood with brass key and ivory rings; 354 mm. Gift of John J. Bowman, Lancaster, Pennsylvania, 25 June 1923.

347. FLUTE IN C. *Drouet, London, 1818.*

6 keys; foot to C<sup>1</sup>; ebony with silver keys and ivory rings; 670 mm. Bought from J. Clayton Boyes, Bushey, England, 26 June 1923.

348. FLUTE IN C. *Eisenbrant, Göttingen, c. 1785.*

3 or 4 keys (originally 1 key); ivory with silver fittings; 3 upper middle joints; 606, 613 and 622 mm. DCM: "This flute seems to have been rebuilt. The lined head joint, with tuning slide, is all new excepting the ivory cap. It bears no name. All other pieces are marked. [2] Middle joints . . . have no key; . . . [1] has one silver key for B-flat. Lower middle joint has keys for G-sharp and short F. The short foot joint has key for D-sharp. All keys are hemispherical cup, and are on posts. The original flute had only the one key for D-sharp, and this was a square-flat flapped key, mounted in the ivory ring. The silver ferrules are probably new, also." Bought from G. Theimann, London, 13 July 1923.

349. PICCOLO IN E-FLAT. *Anon., 19th cent.*

4 keys; cocus with silver fittings; 255 mm. Gift of Earl Stumpf, Tampa, Florida, 22 July 1923.

350. FLUTE IN C. *G. Astor & Co., London, 1784-97.*

1 key; boxwood with silver key and ivory rings; 595 mm. Gift of William R. Gibbs, Boston, 1 Aug. 1923.

351. FLUTE IN C. *Jas. Wood & Son, London, 1808-29.*

8 keys; ebony with silver lip plate and silver fittings; 665 mm. Bought from J. Clayton Boyes, Bushey, England, Aug. 1923.

352. FLUTE IN C. *Clementi, London, early 19th cent.*

8 keys; rosewood with silver fittings; 665 mm. Bought from J. Koenigsberg, New York, Aug. 1923.

353. FLUTE IN C. *Pask, London, 1841-49.*

9 keys; rosewood with silver lip plate and silver fittings (keys, ferrules, cap, and lip plate are engraved; inlaid silver rings at all finger holes; inlaid pearl at embouchure); 660 mm. Bought from J. Clayton Boyes, Bushey, England, 4 Sept. 1923.

354. FLUTE IN C. *Stengel, Bayreuth, mid-19th cent.*

10 keys; foot to B; boxwood with brass keys and ivory rings; 705 mm. Flute marked "Stengel / Baireuth / Deposito / Brizzi / E / Niccolai / Firenze / Brevetato." Bought from G. Meriggioli, Milan, 29 Sept. 1923.

355. PICCOLO IN E-Flat. *Anon., 19th cent.*

6 keys; ebony with silver fittings; 263 mm. Bought from G. Meriggioli, Milan, 29 Sept. 1923.

356. PICCOLO IN F. *J. Ziegler, Vienna, 1820-47.*

4 keys (no short F key—long F only); ebony with silver fittings; 235 mm. Bought from G. Meriggioli, Milan, 29 Sept. 1923.

357. SHAKUHACHI IN E-FLAT (END-BLOWN NOTCHED FLUTE). *Japan, early 20th cent.*

4/1; bamboo lacquered red inside; 595 mm. Bought from Aoki Taisei-Do, San Francisco, December 1921.

358. SHAKUHACHI IN C (END-BLOWN NOTCHED FLUTE). *Japan early 20th cent.*

4/1; bamboo lacquered red inside; 605 mm. Bought from Aoki Taisei-Do, San Francisco, 21 Sept. 1923.

359. SHAKUHACHI IN G-FLAT (END-BLOWN NOTCHED FLUTE). *Japan, early 20th cent.*

4/1; bamboo lacquered red inside; 420 mm. Bought from Hakabun-Do, Los Angeles, 13 Sept. 1923.

360. OCARINA. *Anon., early 20th cent.*

8/2; white porcelain ornamented with blue design; 155 mm. Bought from Baxter-Northup Co., Los Angeles, September 1923.

361. FLUTE-FLAGEOLET IN C. *Anon, 19th cent.*

6 keys; body of ordinary flute type with special flageolet head; ebony with silver fittings; 590 mm. Bought from Baxter-Northup Co., Los Angeles, 20 Sept. 1923.

362. PANPIPES. *Anon., early 20th cent.*

19 pipes; range D-sharp<sup>2</sup>—A<sup>4</sup>; metal; 180—39 mm. Bought from Baxter-Northup Co., Los Angeles, September 1923.

363. FLUTE IN C. *A. G. Badger, New York, mid-19th cent.*

Boehm's 1832 system, Dorus G-sharp; rosewood with silver tube at embouchure and silver fittings; 666 mm. Bought from Baxter-Northup Co., Los Angeles, September 1923.

364. VERTICAL WHISTLE FLUTE.

6/0; nickel-plated brass(?); 319 mm. Bought from Baxter-Northup Co., Los Angeles, September 1923.

365. FLUTE IN C. *Rudall & Rose, London, c. 1837-47.*

8 keys; with ordinary head and patent head (British Patent No. 6338, Rudall & Rose, 1832); cocus with silver fittings; 667 mm. Bought from William R. Gibbs, Boston, 19 Oct. 1923.

366. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

23 pipes; range F<sup>2</sup>—G<sup>5</sup>; bamboo; 125—16 mm. DCM: "The following nineteen instruments, Nos. 366 to 374, constitute a 'Band' of Pan-Pipes, made and tuned to be together. The band proper consists of 21 instruments, there being duplicates of the largest basses (Nos. 373 and 374). This band was obtained on special order by Prof. Merigglioli, in the Province of Brianza (about 30 miles north of Milan). . . . The band consists of nine groups as shown in the numbers 366 to 374. . . . This instrument is used as a 'Piccolo,' that is, it is always played an octave higher than the principal melody." Bought from G. Merigglioli, Milan, 23 Oct. 1923.

367-A. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

25 pipes; range D<sup>2</sup>—G<sup>5</sup>; bamboo; 150—17 mm. DCM: "These instruments [367 A & B] play the principal melody, not in unison, but in thirds. The two lower tones are often omitted in instruments for this part. The highest tones are difficult." See No. 366. Bought from G. Merigglioli, Milan, 23 Oct. 1923.

367-B. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

26 pipes; range D<sup>2</sup>—A<sup>5</sup>; bamboo; 160—16 mm. See Nos. 367-A and 366. Bought from G. Merigglioli, Milan, 23 Oct. 1923.

368-A. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

28 pipes; range F<sup>1</sup>—E<sup>4</sup>; bamboo; 242—18 mm. DCM: "These instruments [368 A & B] play in thirds an octave below the principal sopranos of Group II [367 A & B]." See No. 366. Bought from G. Merigglioli, Milan, 23 Oct. 1923.

368-B. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

28 pipes; range F<sup>1</sup>—E<sup>4</sup>; bamboo; 242—18 mm. See Nos. 368-A and 366. Bought from G. Merigglioli, Milan, 23 Oct. 1923.

369-A. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

18 pipes; range A<sup>1</sup>—A<sup>2</sup>; bamboo; 200—20 mm. DCM: "Four instruments [369 A-D] for Harmony Alto parts. Compass only 8 tones. The additional pipes are for 'show' only. This group plays a third above the instruments of Group V [370 A-D], two of the instruments playing on the beat and two on the after-beat." See No. 366. Bought from G. Merigglioli, Milan, 23 Oct. 1923.

369-B. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

18 pipes; range A<sup>1</sup>—A<sup>2</sup>; bamboo; 198—20 mm. See Nos. 369-A and 366. Bought from G. Merigglioli, Milan, 23 Oct. 1923.

369-C. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

17 pipes; range A<sup>1</sup>—A<sup>2</sup>; bamboo; 197—20 mm. See Nos. 369-A and 366. Bought from G. Merigglioli, Milan, 23 Oct. 1923.

369-D. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

18 pipes; range A<sup>1</sup>—A<sup>2</sup>; bamboo; 195—16 mm. See Nos. 369-A and 366. Bought from G. Merigglioli, Milan, 23 Oct. 1923.

370-A. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

19 pipes; range  $F^1$ - $F^2$ ; bamboo; 244—22 mm. DCM: "Four Second Harmony Altos or Little Basses. This group [Nos. 370A-D] plays the bass note an octave higher than Group VII [372 A & B], and two octaves higher than Group IX [374]. Two of the instruments play on the beat, and two on the after-beat." See No. 366. Bought from G. Meriggioli, Milan, 23 Oct. 1923.

370-B. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

19 pipes; range  $F^1$ - $F^2$ ; bamboo; 244—22 mm. See Nos. 370-A and 366. Bought from G. Meriggioli, Milan, 23 Oct. 1923.

370-C. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

18 pipes; range  $F^1$ - $F^2$ ; bamboo; 244—23 mm. See Nos. 370-A and 366. Bought from G. Meriggioli, Milan, 23 Oct. 1923.

370-D. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

19 pipes; range  $F^1$ - $F^2$ ; bamboo; 250—20 mm. See Nos. 370-A and 366. Bought from G. Meriggioli, Milan, 23 Oct. 1923.

371-A. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

19 pipes; range small A— $A^1$ ; bamboo; 383—23 mm. DCM: "Two small basses for Harmony [371 A & B]. These instruments play a third above the bass played by Group VII [372 A & B], one on the beat, and one on the after-beat." See No. 366. Bought from G. Meriggioli, Milan, 23 Oct. 1923.

371-B. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

19 pipes; range small A— $A^1$ ; bamboo; 380—26 mm. See Nos. 371-A and 366. Bought from G. Meriggioli, Milan, 23 Oct. 1923.

372-A. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

20 pipes; range small F— $F^1$ ; bamboo; 485—24 mm. DCM: "Two small basses

for Harmony [Nos. 372 A & B]. These instruments play the bass note one octave higher than Group IX [374], one on the beat, one on the after beat." See No. 366. Bought from G. Meriggioli, Milan, 23 Oct. 1923.

372-B. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

19 pipes; range small F— $F^1$ ; bamboo; 475—24 mm. See Nos. 372-A and 366. Bought from G. Meriggioli, Milan, 23 Oct. 1923.

373. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

21 pipes; range great A—small A; bamboo; 725—23 mm. DCM: "Two Large Basses for After Beat. (Only one specimen in this collection). These instruments are tuned a third higher and play a third above the large basses of Group IX [374]." See No. 366. Bought from G. Meriggioli, Milan, 23 Oct. 1923.

374. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

23 pipes; range great F—small F; bamboo; 920—22 mm. DCM: "Two Large Principal Basses [only one specimen in this collection]. One plays on the beat and one on the after-beat." See No. 366. Bought from G. Meriggioli, Milan, 23 Oct. 1923.

375. PANPIPES IN B-FLAT. *Anon., Brianza, Italy, 1923.*

22 pipes; range  $f^2$ - $a^4$ ; bamboo; 122—15mm. DCM: "A melody instrument, to be played by itself. The adjacent pipes are tuned in thirds and two pipes are to be sounded at once." Seven pipes are for display and are not tuned. Bought from G. Meriggioli, Milan, 23 Oct. 1923.

376. FLUTE IN C. *Fernand Chapelain & Cie, Paris, c. 1878.*

Tulou model (old system modified); rosewood(?) with silver fittings; 674 mm. Gift of Allen Loomis, Toledo, Ohio, 1923.

377. FLUTE IN C. *E. Riley, New York, 1819-31.*

1 key; pear or apple wood with silver key; flute is carved with 6 diamond-shaped patches; 615 mm. Bought from Cecil Silvermaid, Chesterland, Ohio, 5 Nov. 1923.

378. FLUTE IN C. *Claude Laurent, Paris, 1813.*
- 4 keys; clear cut glass with silver fittings; 618 mm; illus. (Plates x and xiv) Girard's *La Flûte*, 1953. Presented to President James Madison, supposedly by Lafayette. Brought from estate of Cornelius Boyle, Washington, 6 Nov. 1923. (See illustration.)
379. FLUTE IN C. *Clinton & Co., London, 1863-71.*
- Clinton's Equisonant System; cocus with silver fittings; 644 mm. Bought from J. Clayton Boyes, Bushey, England, 14 Nov. 1923.
380. PICCOLO IN D-FLAT. *Collard & Co. (?) , London, c. 1878.*
- Boehm system with Collard's arrangement of hinges and clutches (British Patent No. 5266, Collard Augustus Drake, 1878), open G-sharp; ebonite with silver fittings; 298 mm. Bought from J. Clayton Boyes, Bushey, England, 14 Nov. 1923.
381. FLUTE IN C. *J. H. Ebbelwhite, London, 1854-83.*
- 8 keys; cocus or rosewood with silver lip plate and silver fittings; 660 mm. Bought from William Powell, Birmingham, England, 5 Dec. 1923.
382. FLUTE IN C. *Claude Laurent, Paris, 1826.*
- 8 keys; clear fluted glass with silver fittings; 673 mm; illus. (Plate x) Girard's *La Flûte*, 1953. Bought from Rudall, Carte & Co., London, 3 Dec. 1923.
383. PICCOLO IN D-FLAT. *Berteling, New York, late 19th cent.*
- 6 keys; grenadilla with ivory head, ebonite barrel, and silver fittings; 296 mm. Bought from Fred L. Britton, Oakland, California, 22 Dec. 1923.
384. SHAKUHACHI IN B. *Japan, early 20th cent.*
- 4/1; bamboo lacquered red on inside; 618 mm. Bought from Aoki Taisei-Do, San Francisco, 22 Dec. 1923.
385. FLUTE IN C. *J. Hale, London, 1784-1804.*
- 6 keys; 3 upper body joints; foot to C<sup>1</sup>; satinwood with silver keys and ivory rings; 671, 678, and 688 mm; illus. (Plate viii) Girard's *La Flûte*, 1953. Bought from William Powell, Birmingham, England, 2 Jan. 1924.
386. FLUTE IN C. *Franz Otto, Neukirchen, 1797.*
- 1 key; boxwood with brass key and ivory rings; 613 mm. Bought from Baxter-Northup Co., Los Angeles, 24 Oct. 1923.
387. PICCOLO IN D-FLAT. *A. Charly, Paris, c. 1889.*
- 1 key; glass with silver fittings; 337 mm; illus. (Plate x) Girard's *La Flûte*, 1953. DCM: "Mr. Baxter visited M. Charly in 1921, and was told that the factory was hit by a German bomb in the war. Piccolo in its case was thrown into the street and cracked. . . . Charly says it was about the only thing left of his entire factory and stock!" Bought from Baxter-Northup Co., Los Angeles, 30 Oct. 1923.
388. FLUTE IN C. *Stanesby Junior, London, c. 1728-54.*
- 6 keys (originally 1 key); ivory with silver fittings; 596 mm. DCM: "The flute has clearly been rebuilt by the addition of the five keys, by cutting the tenon off the head, shortening the head to make high pitch, by putting in a lining and slide joint . . . and by enlarging the embouchure." Gift of John T. Shiel, Walkden, England, 4 Jan. 1924.
389. FLUTE IN C. *Hüttl & Fischer, Boston, 1870-73.*
- 10 keys (left-handed flute); foot to B; grenadilla with ivory head and silver fittings; 680 mm. Bought from Fred L. Britton, Oakland, California, 10 Jan. 1924.
390. WALKING STICK FLUTE IN C. *Anon., early 19th cent.*
- 1 key; mahogany(?) with brass key, ivory ring, silver ferrule, and iron tip; 870 mm. Bought from C. W. Unger, Pottsville, Pennsylvania, 14 Feb. 1924.

391. FLUTE IN C. *Firth, Pond & Co., New York, 1848-65.*  
4 keys; rosewood with silver fittings; 615 mm. Gift of(?), Rochester, New York, 1923.
392. FLUTE IN C. *E. Riley, New York, 1819-31.*  
1 key, rosewood with silver key and ivory rings; 613 mm. Bought from J. R. Gragg, Bainbridge, Ohio, 15 Feb. 1924.
393. FLUTE IN C. *Drouet, London, 1815-1819.*  
8 keys; ivory with silver fittings; 665 mm. Bought from William Powell, Birmingham, England, 4 March 1924.
394. FLUTE IN C. *Monzani & Co., London, c. 1814-20.*  
9 keys; 2 head joints; lower body and foot are one joint; cocus with silver fittings; 665 and 670 mm. Bought from J. Clayton Boyes, Bushey, England, 4 March 1924.
395. FLUTE IN C. *Anon., 18th cent.*  
1 key; 8 pieces (plus missing piece); ivory with silver key and silver inlaid at finger holes; 568 mm (incomplete). DCM: "Study of the scale indicates that a piece about 2½" or 3" long is missing from the head joint." Bought from Maude P. Hull, Antiques, Richmond, Virginia, 7 March 1924.
396. CLARINET IN E-FLAT. *Schuster, Markneukirchen(?), early 19th cent.*  
5 keys; boxwood with brass keys and black horn rings; 487 mm. Bought from J. R. Gragg, Bainbridge, Ohio, 10 March 1924.
397. FLUTE IN C. *Wm. Whiteley, Utica, New York, 1830.*  
4 keys; rosewood with silver keys and ivory rings; 615 mm. Bought from Peter R. Sleight, Newark, New York, 13 March 1924.
398. FLUTE IN C. *Rudall & Rose, London, 1847-50.*  
Boehm's 1832 system, open G-sharp (originally Dorus), Briccialdi lever; cocus or rosewood with silver fittings; 650 mm. Bought from Baxter-Northup Co., Los Angeles, 20 March 1924.
399. FLUTE IN C. *Martin, Potsdam, 1820.*  
8 or 11 keys; 2 upper body joints (one with 2 keys and one with 5 keys); ebony with silver keys and ivory rings; 680 mm. Bought from W. H. Wilkinson, Antiques, Kansas City, Missouri, 13 March 1924.
400. FLUTE IN C. *Scherer, Paris(?), c. 1764.*  
1 key; 2 upper body joints; ivory with silver key; 587 and 603 mm. Bought from D. A. McDonald, Chicago, 13 March 1924.
401. FLUTE IN C. *F. Boie, Göttingen, c. 1790.*  
4 keys; ebony with silver keys and ivory rings; 627 mm. Gift of D. A. McDonald, Chicago, 13 March 1924.
402. GIORGI PICCOLO IN C. *J. Wallis & Son, London, early 20th cent.*  
6 keys (ordinary 6 keyed piccolo with keys slanted for vertical holding); cocus with ebonite head and silver fittings; 263 mm. Bought from William Powell, Birmingham, England, 22 March 1924.
403. FLUTE IN C. *Potter, London, late 18th cent.*  
6 keys; foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 670 mm. Bought from John T. Shiel, Walkden, England, 4 Apr. 1924.
404. FLUTE IN C. *T. Prowse, London, early 19th cent.*  
1 key; boxwood with silver key and ivory rings; 602 mm. Bought from John T. Shiel, Walkden, England, 4 Apr. 1924.
405. FLUTE IN C. *Potter Senior, London, 1778.*  
6 keys (plus added key for high C); foot to C<sup>2</sup>; ivory with silver keys; 665 mm. Gift of Louis P. Fritze, Brooklyn, New York, 7 Apr. 1924.
406. FLUTE IN C. *T. Prowse, London, mid-19th cent.*  
9 keys ("J. Richardson's Improved"); cocus with silver tube at embouchure and silver fittings; 663 mm. Bought from J. Clayton Boyes, Bushey, England, 12 Apr. 1924.

407. ENGLISH FLAGEOLET. *T. J. Weygandt, Philadelphia, c. 1840.*

7/1, 1 key; boxwood with brass key and ivory beak and studs; 395 mm. Gift of Mrs. J. McArthur Harris, Philadelphia, 24 Apr. 1924.

408. ENGLISH FLAGEOLET. *T. J. Weygandt, Philadelphia, c. 1840.*

7/1, 1 key; applewood(?) with brass key and ivory beak and studs; 480 mm. Gift of Mrs. J. McArthur Harris, Philadelphia, 24 Apr. 1924.

409. FLUTE IN C. *Clair Godfroy aîné, Paris, c. 1839-50.*

Boehm's 1832 system, Dorus G-sharp; foot to B; cocus with engraved silver fittings; 707 mm. DCM: "Dorus G-sharp has a unique 'equalizing lever,' to limit rise of ring and key. Foot keys to B of unique design, all holes in one row." Bought from J. Clayton Boyes, Bushey, England, 3 May 1924.

410. FLUTE IN C. *Albrecht, Freiberg, c. 1890.*

10 keys; foot to B; cocus with silver fittings; 697 mm. Bought from Buescher Musical Instrument Co., Elkhart, Indiana, 24 May 1924.

411. FLUTE IN C. *Anon., late 18th cent.*

1 key; ivory with silver key; 607 mm. Bought from G. Meriggioli, Milan, 24 May 1924.

412. FLUTE IN C. *J. Ziegler, Vienna, 1820-47.*

14 keys; foot to B-flat; ivory with silver fittings; 755 mm. Bought from G. Meriggioli, Milan, 24 May 1924.

413. PICCOLO IN C. *J. Ziegler, Vienna, 1820-47.*

6 keys; ivory with inlaid gold rings at finger holes, gold key cups, and silver touch pieces; 315 mm. Bought from G. Meriggioli, Milan, 24 May 1924.

414. FLUTE IN C. *Anon., 19th cent.*

6 keys; elaborately carved boxwood with brass keys and black horn rings; 658 mm. Bought from G. Meriggioli, Milan, 24 May 1924.

415. FLUTE IN C. *Th. Boehm & Mendler, Munich, 162-81.*

Boehm system, open G-sharp; phosphor bronze with cocus head; 640 mm. James S. Wilkins: "Mr. Boehm made three sample flutes, one 'G' and two 'C's, of phosphor bronze. . . . This metal Mr. Boehm pronounced the best for tone and ease of emission, but it was so extremely difficult to work that he would not make flutes of it." Bought from Mrs. James S. Wilkins, Newton Center, Mass., 6 June 1924.

416. FLUTE IN G. *Th. Boehm & Mendler, Munich, 1862-81.*

Boehm system, open G-sharp, Schleif key; phosphor bronze with wood lip plate; 883 mm. See No. 415. Bought from Mrs. James S. Wilkins, Newton Center, Mass., 6 June 1924.

417. FIFE IN C. *Anon., 19th cent.*

Pear wood(?) with brass ferrules; 415 mm. Bought from Sumner Healey, New York, 7 June 1924.

418. FLUTE IN C. *Duval, Maestricht, The Netherlands, late 18th cent.*

1 key; ebony with silver key and ivory rings; 615 mm. Bought from Sumner Healey, New York, 7 June 1924.

419. FLUTE IN C. *"Tibouvile Frere," Paris, mid-19th cent.*

1 key; boxwood(?) with silver key and ivory rings; 620 mm. Bought from Sumner Healey, New York, 7 June 1924.

420. WALKING STICK FLUTE IN C. *Anon., early 19th cent.*

6/1, 5 keys; grenadilla with silver fittings and horn knob; 903 mm. Bought from Sumner Healey, New York, 7 June 1924.

421. TABOR PIPE. *Anon., 19th cent.*

2/1; wood with ivory beak and rings; 315 mm. Bought from Sumner Healey, New York, 7 June 1924.

422. FLUTE IN C. *Anon., late 18th cent.*

1 key; ivory with silver key; 3 upper body joints; 633, 647, and 664 mm. Bought from Sumner Healey, New York, 7 June 1924.



423. OBOE IN C. *Rouge, London(?)*, c. 1780.

3 keys; ivory with silver keys and black horn ferrules; 503 mm. Bought from Sumner Healey, New York, 7 June 1924.

424. FLUTE IN C. *William Henry Potter, London, 1809-1817*.

6 keys; foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 670 mm. Bought from William Powell, Birmingham, England, 7 July 1924.

425. ENGLISH FLAGEOLET. *Anon.*, 19th cent.

6/0; rosewood; 320 mm. Bought from William Powell, Birmingham, England, 7 July 1924.

426. FLUTE IN C. *Keith, Prowse & Co., London, 1832-46*.

8 keys; rosewood with silver fittings; 650 mm. Bought from J. Clayton Boyes, Bushey, England, 16 July 1924.

427. FLUTE IN C. *Hawes, London, 1834-47*.

4 keys; cocus or rosewood with silver fittings; 610 mm. Bought from Albert L. Sleeman, Warren, Pennsylvania, 17 July 1924.

428. FLUTE IN C. (*Hotteterre replica*) by *Eugene Joseph Albert, Brussels, 1924*.

1 key; pear wood with silver key and ivory foot, rings and cap; 707 mm. Copied from an original Hotteterre flute in the C. Snoeck Collection. Bought from Eugene Joseph Albert, Brussels, 24 July 1924.

429. FLUTE IN C. (*Quantz replica*) by *Eugene Joseph Albert, Brussels, 1924*.

2 keys (D-sharp and E-flat); Quantz tuning slide; ebony with silver keys and ivory rings; 650 mm. Copied from a flute in the Brussels Museum which is a copy of a Quantz flute in the Hohenzollern Museum in Berlin. Bought from Eugene Joseph Albert, Brussels, 24 July 1924.

430. FRENCH FLAGEOLET. *Buffet, Crampon & Cie, Paris, late 19th cent*.

5 keys; grenadilla with silver fittings and ivory beak; 388 mm. Bought from William Powell, Birmingham, England, 26 July 1924.

431. FIFE IN B-FLAT. *Anon.*, early 20th cent.

Raised finger holes; nickel plated brass (?) with ebonite tube at embouchure; 348 mm. Gift of Mrs. William E. Cory, Mt. Wilson Hotel, California, 31 Aug. 1924.

432. FLUTE IN C. *Rudall, Carte & Co., London, c. 1871-78*.

Boehm system with perforated keys (Rockstro model), open G-sharp; silver; 640 mm. Bought from Baxter-Northup Co., Los Angeles, 8 Sept. 1924.

433. PANPIPES. *Malo Island, New Hebrides, 19th cent*.

3 pipes pitched G-flat<sup>1</sup>, A-flat<sup>1</sup>, and B-flat<sup>1</sup>; cane pipes tied together with two bands of braided grass; 247-202 mm. Gift of Clarence Elkin, North Sydney, Australia, Sept. 1924.

434. PANPIPES. *Malo Island, New Hebrides, 19th cent*.

10 pipes; range A-flat<sup>1</sup>-B-flat<sup>2</sup>; cane pipes tied together with two bands of braided grass; 220-103 mm. Gift of Clarence Elkin, North Sydney, Australia, Sept. 1924.

435. PANPIPES. *Malo Island, New Hebrides, 19th cent*.

10 pipes; range G<sup>1</sup>-D-sharp<sup>2</sup>; cane pipes tied together with band of braided grass; 230-153 mm. The pipes are so arranged that two pipes, in major or minor thirds, can be sounded at one time. Gift of Clarence Elkin, North Sydney, Australia, Sept. 1924.

436. NOTCHED FLUTE. *Malo Island, New Hebrides, 19th cent*.

3/0; cane; 655 mm. Gift of Clarence Elkin, North Sydney, Australia, Sept. 1924.

437. KOAUAU (END - BLOWN - MOUTH OR NOSE). *Maori (East of North Island, New Zealand), 19th cent*.

3/0; wood; 161 mm. Gift of Clarence Elkin, North Sydney, Australia, Sept. 1924.

438. FLUTE IN C. *Rudall, Rose & Carte, London, 1853-54.*
- Boehm's 1832 system, open G-sharp; cocus with silver fittings; 653 mm. Bought from J. Clayton Boyes, Bushey, England, Sept. 1924.
439. FLUTE IN C. *Boosey & Sons, London, c. 1854-64.*
- 8 keys (Nicholson holes); cocus with silver fittings; 657 mm. "R. S. Pratten's perfected" stamped on body. Gift of David Hirschler, San Francisco, 10 Sept. 1924.
440. FLUTE IN C. *Rudall & Rose, London, c. 1827-37.*
- 13 keys; foot to B-flat; rosewood or cocus with silver band at embouchure and silver fittings; 745 mm. Bought from J. Clayton Boyes, Bushey, England, 8 Oct. 1924.
441. OBOE IN C. *Alexander, Mainz, mid-19th cent.*
- 13 keys, 2 rings; ebony with silver keys and ivory rings; 553 mm. Apparently there were originally 12 keys; 1 has been removed and 2 keys and 2 rings have been added. Gift of Robert J. Shackleton, Chicago, 15 Oct. 1924.
442. FLUTE IN C. *Pollmanini, New York, c. 1880.*
- 13 keys; foot to B; grenadilla with ivory head and silver fittings; 703 mm. Gift of W. H. Frederick, Oberlin, Ohio, 18 Oct. 1924.
443. CLARINET IN C. *Anon., early 19th cent.*
- 5 keys; ivory with silver keys (gold plate in center of each key cup); 524 mm. Gift of M. Earl, Oakland, California, 31 Oct. 1924.
444. FLUTE IN C. *H. Starck, London, late 19th cent.*
- 8 keys (Nicholson holes); rosewood with silver fittings; 650 mm. "Sole Agents/Chas Begg & Co/Dunedin, N.Z." stamped on body. Bought from Baxter-Northup Co., Los Angeles, 3 Nov. 1924.
445. FLUTE IN C. *John Simpson, London, c. 1826-30.*
- 4 keys; boxwood with silver keys and ivory rings; 600 mm. Bought from William Powell, Birmingham, England, 4 Nov. 1924.
446. "MULTIFLUTE" (VERTICAL OR HORIZONTAL WHISTLE FLUTE). *Hercule, Paris, 1924.*
- 6/0; 3 head joints: long flageolet type, short whistle type, and one for horizontal holding; nickel-plated pewter; 280, 305, and 356 mm. Bought from music shop on Boylston Street, Boston, 10 Nov. 1924.
447. PICCOLO IN D-FLAT. *E. Rittershausen, Berlin, early 20th cent.*
- Boehm system, closed G-sharp; grenadilla with silver fittings; 303 mm. "E. Rittenshausen/Berlin/Carl Fischer/New York/1295" stamped on body. Gift of William S. Haynes, Boston, 11 Nov. 1924.
448. PICCOLO IN C. *George W. Haynes, New York, 1888.*
- Boehm system, closed G-sharp; 2 head joints (high and low pitch); cocus with silver fittings; 304 and 313 mm; illus. (Plate VIII) Girard's *La Flûte*, 1953. Gift of William S. Haynes, Boston, 11 Nov. 1924.
449. FLUTE IN C. *Clementi & Co., London, c. 1822-34.*
- 8 keys ("C. Nicholson's Improved"); rosewood or cocus with silver lip plate and silver fittings; 660 mm. Bought from J. Clayton Boyes, Bushey, England, 2 Dec. 1924.
450. FLUTE IN C. *Claude Laurent, Paris, 1817.*
- 4 keys; clear glass with silver fittings; 613 mm; illus. (Plate X) Girard's *La Flûte*, 1953. Bought from Grace Gassette, Paris, 2 Dec. 1924.
451. FLUTE IN C. *G. Peachey, London, c. 1832-50.*
- 6 keys; foot to C<sup>1</sup>; satinwood with silver keys and ivory rings; 655 mm. Gift of M. Earl, Oakland, California, 9 Dec. 1924.

452. FLUTE IN C. *Louis Lot, Paris, 1880.*

Boehm system with perforated keys, closed G-sharp; silver; 680 mm. Gift of Charles D. Chapman, Morristown, New Jersey, 15 Dec. 1924.

453. FLUTE IN C. *J. Wood(?) , London(?) , 1799-1808(?) .*

8 keys (originally 6 keys); foot to C<sup>2</sup>; carved ivory with silver fittings (engraved keys); 678 mm; illus. (Plate ix) Girard's *La Flûte*, 1953. DCM: "Keys of unique style: flat flaps, hinged at one edge, closing down like a 'trap-door,' raised by a lever engaging in a loop on the upper side." Bought from John T. Shiel, Walkden, England, 1 Jan. 1925.

454. DOUBLE NOSE FLUTE. *Bengal Province, India, early 20th cent.*

4/0 (both pipes identical); wood stained red, pipes bound together with string; 440 mm. Gift of J. S. Lovejoy, Calcutta, March 1925(?).

455. DOUBLE NOSE FLUTE. *Bengal Province, India, early 20th cent.*

4/0 (both pipes identical); bamboo stained with red, green, yellow, and black bands; 315 mm. Gift of J. S. Lovejoy, Calcutta, March 1925(?).

456. VERTICAL WHISTLE FLUTE. *Bengal Province, India, early 20th cent.*

7/1; wood stained red; 292 mm. Gift of J. S. Lovejoy, Calcutta, March 1925(?).

457. VERTICAL WHISTLE FLUTE. *Bengal Province, India, early 20th cent.*

7/1; bamboo ornamented with incised lines; 322 mm. Gift of J. S. Lovejoy, Calcutta, March 1925(?).

458. VERTICAL WHISTLE FLUTE. *Bengal Province, India, early 20th cent.*

7/1; bamboo ornamented with incised lines; 362 mm. Gift of J. S. Lovejoy, Calcutta, March 1925(?).

459. CROSS FLUTE. *Bengal Province, India, early 20th cent.*

6/0; bamboo ornamented with incised lines; 347 mm. Gift of J. S. Lovejoy, Calcutta, March 1925(?).

460. FLUTE IN C. *E. Rittershausen, Berlin, c. 1916.*

Boehm system, closed G-sharp; foot to B; silver; 711 mm. "E. Rittershausen/Berlin/Carl Fischer/New York/4420" stamped on flute. Bought from George W. Haynes, New York, 27 Feb. 1925.

461. FLUTE IN C. *H. Fentum, London, mid-19th cent.*

8 keys (Nicholson holes); rosewood with silver fittings; 662 mm. Bought from J. Clayton Boyes, Bushey, England, 11 March 1925.

462. FLUTE IN A-FLAT. *Key, London, early 19th cent.*

4 keys; boxwood with brass keys and ivory rings; 400 mm. Bought from J. Clayton Boyes, Bushey, England, 11 March 1925.

463. FLUTE IN C. *T. Prowse, London, early 19th cent.*

4 keys; satinwood with silver keys and ivory rings; 600 mm. Bought from J. Clayton Boyes, Bushey, England, 15 Apr. 1925.

464. FLUTE IN C. *W. Milhouse, London, 1799-1828.*

8 keys; rosewood with silver fittings; 672 mm. Head is reduced in diameter at embouchure. Bought from J. Clayton Boyes, Bushey, England, 15 Apr. 1925.

465. PICCOLO in E-FLAT. *Hawkes & Son, London, c. 1905.*

6 keys; grenadilla with rubber barrel and silver fittings; 260 mm. Bought from William Powell, Birmingham, England, 16 May 1925.

466. FLUTE IN C. *William Henry Potter, London, 1809-17.*

4 keys; boxwood with silver keys and ivory rings; 600 mm. Bought from Pierce's Old Book Shop, Berkeley, California, 11 Apr. 1925.

467. FLUTE IN C. *F. Boie, Göttingen, late 18th cent.*

2 keys (D-sharp and G-sharp; one upper body joint has a B-flat key which is not original); 3 upper body joints; ebony with silver keys and ivory rings; 607, 615, and 624 mm. Bought from G. Meriggioli, Milan, 20 Apr. 1925.

468. FLUTE IN C. *Staudinger, Dresden, 1819.*

1 key; boxwood with brass key and black horn rings; 581 mm (without cap). Bought from G. Meriggioli, Milan, 20 Apr. 1925.

469. FLUTE IN C. *Bernhart, place unknown, late 18th cent.*

1 key; satinwood(?) with silver key and ivory rings; 600 mm. Bought from G. Meriggioli, Milan, 20 Apr. 1925.

470. FLUTE IN C. *Th. Boehm, Munich, 1847.*

Boehm's ring-key system of 1847, open G-sharp; nickel-plated brass with ivory tube at embouchure and silver fittings; 2 joints; 625 mm. Boehm's No. 2. Bought from G. Meriggioli, Milan, 20 Apr. 1925.

471. FLUTE BODY JOINT. *Th. Boehm, Munich, c. 1832-47.*

Brass body joint with 9 large and 3 small holes plus 13 slide-over short pieces with holes of varying sizes; 318 mm. DCM: "This is the 'experimental flute with movable holes', described by Boehm in all of his books, used for determining the exact location of tone-holes by trial." Bought from G. Meriggioli, Milan, 20 Apr. 1925.

472. FLUTE IN C. *Neddermann, Hannover, mid-19th cent.*

10 keys; foot to B; grenadilla with silver fittings; 714 mm. Bought from J. Clayton Boyes, Bushey, England, 30 Apr. 1925.

473. FLUTE IN C. *Herman Wrede, London, 1813-20.*

4 keys; boxwood with brass keys and ivory rings; 609 mm. Gift of D. J. Mydans, Boston, 30 Apr. 1925.

474. FLUTE IN C. *E. Rittershausen, Berlin, c. 1900.*

Boehm system, closed G-sharp; grenadilla with silver fittings; 678 mm. "E. Rittershausen/Berlin/Carl Fischer/New-York/1496" stamped on body. Bought from Haynes Brothers, New York, 6 May 1925.

475. FLUTE IN C. *Claude Laurent, Paris, 1814.*

4 keys; 2 upper body joints; 3 pewter rings have been included to fill socket space when the joints are pulled for tuning; clear glass with silver fittings; 607 and 624 mm; illus. (Plates VIII and X) Girard's *La Flûte*, 1953. Bought from Francis Rotch, Seattle, Washington, 12 May 1925.

476. FLUTE IN C. *W. Card, London, 1840-61.*

8 keys (Nicholson holes); rosewood with silver fittings; 646 mm. Bought from A. Stuttaford, Buffalo, New York, 22 May 1925.

477. FLUTE IN C. *Otto Mönnig, Leipzig, c. 1910.*

Boehm system, Schleif key, closed G-sharp; grenadilla with silver fittings; 670 mm. Flute is marked "Orthoton." DCM: "'Orthoton' feature seems to consist of graduated tone holes." Bought from Baxter-Northrup Co., Los Angeles, 9 June 1925.

478. FLUTE IN C. *V. Kohlert Söhne, Graslitz, 1917.*

Boehm system, open G-sharp (for right hand only and to be held on the left); 2 joints; grenadilla with silver fittings; 675 mm. Bought from G. Meriggioli, Milan, 1 June 1925.

479. FLUTE IN C. *V. Kohlert Söhne, Graslitz, 1917.*

Boehm system, open G-sharp (for left hand only and to be held on the right); 2 joints; grenadilla with silver fittings; 675 mm. Bought from G. Meriggioli, Milan, 1 June 1925.

480. VERTICAL WHISTLE FLUTE. *Red Fox (North American Qupaw Indian) Miami, Oklahoma, 1925.*

6/0; wood varnished and polished with upper part stained mahogany color, central part natural color and lower part black; bound with 5 silver bands; flue cover shaped like animal; 645 mm. Gift of Thurlow Lieurance, Lincoln, Nebraska, 9 June 1925.

481-A. GIORGI FLUTE IN C. *Joseph Wallis & Son, London, c. 1888.*

Giorgi system (8/0 with 3 keys); ebonite with silver fittings; 520 mm. Bought from William Powell, Birmingham, England, 9 June 1925.

481-B. GIORGI FLUTE IN C. *Joseph Wallis & Son, London, c. 1888.*

Giorgi system (8/0 with 3 keys); ebonite with silver fittings; 520 mm. Source unknown; bought from Powell?

482. ENGLISH FLAGEOLET. *Anon., early 19th cent.*

7/1, 1 key; boxwood with brass key and ivory beak; 405 mm. Bought from William Powell, Birmingham, England, 9 June 1925.

483. FLAGEOLET-PICCOLO IN F. *Anon., 19th cent.*

1-keyed piccolo with flageolet mouthpiece (side-blown); rosewood with silver band at mouthpiece and silver fittings; 300 mm. Bought from William Powell, Birmingham, England, 9 June 1925.

484. FLUTE IN C. *Potter(?) , London(?) , 1819-25.*

6 keys; foot to C<sup>1</sup>; satinwood with silver keys and ivory rings; 672 mm. Flute is marked "Townsend/Deansgate/Manchr." Bought from William Powell, Birmingham, England, 7 July 1925.

485. FLUTE IN E-FLAT. *Whitaker, London, c. 1760-88.*

1 key; boxwood with brass key; 515 mm. Bought from Miss E. M. Williat-Jones, London, 11 July 1925.

486. FLUTE IN A-FLAT. *Hawkes & Son, London, c. 1905.*

6 keys; grenadilla with ebonite barrel and silver fittings; 380 mm. Bought from Lyon & Healy, Chicago, 15 July 1925.

487. FLUTE IN A-FLAT. *Hawkes & Son, London, c. 1905.*

6 keys plus 6 covered finger holes; grenadilla with ebonite barrel and silver fittings; 380 mm. Bought from Lyon & Healy, Chicago, 15 July 1925.

488. PICCOLO IN C. *Berteling, New York, late 19th cent.*

Boehm system, closed G-sharp; grenadilla with silver fittings; 292 mm. Gift of M. Earl, Oakland, California, 29 Aug. 1925.

489. ZUMMARAH (DOUBLE PIPE WITH IDIOGLOTTAL BEATING REEDS). *Egypt, 19th cent.*

6/0 (pipes are identical); bamboo pipes bound together with string; 240 mm. Bought from Pierce's Old Book Store, Berkeley, California, 31 Aug. 1925.

490. SEITEKI (CROSS FLUTE). *Japan, early 20th cent.*

6/0, membrane hole, tassel holes; bamboo stained brown in a mottled design and lacquered red inside with ivory tips; 550 mm. Bought from Aoki, San Francisco, 3 Sept. 1925.

491. FLUTE IN C. *Rönning & Schröder, New York, mid-19th cent.*

11 keys (3 F keys—extra lever for short F for left thumb; D-sharp trill key is triplex); foot to B; rosewood with pearl plate inset at embouchure and silver fittings; 707 mm. Bought from Golden State Loan Office, San Francisco, 3 Sept. 1925.

492. TI (CROSS FLUTE). *Peking, China, 17th or 18th cent.*

6/0, membrane hole, tassel holes; jade with red coral bushing at embouchure; 442 mm. Bought from The Ming Co., San Francisco, 3 Sept. 1925.

493. FENG HUANG HSIAO (NOTCHED FLUTE). *Peking, China, 17th or 18th cent.*

5/1, tassel holes; jade formed on outside in imitation of bamboo with yellow tassel; 563 mm. Bought from The Ming Co., San Francisco, 3 Sept. 1925. (See illustration.)

494. WHISTLE. *North American Indian (Sioux), 19th cent.*

Pitch G<sup>2</sup>; elder(?) with decorations burned in; piece of thin skin tied over the upper end; thong at lower end; 225 mm. Bought from Bloch Mercantile Co., San Francisco, 26 Sept. 1925.

495. PICCOLO IN C. *C. G. Conn, Elkhart, Indiana, early 20th cent.*

Boehm system, open G-sharp; silver with ebonite head and gold plated keys and cap; 327 mm. Bought from Harris Loan Co., San Francisco, 26 Sept. 1925.

496. FLUTE IN C. *Rudall & Rose, London, 1837-47.*

8 keys (Nicholson holes); rosewood with silver lip plate and silver fittings; 661 mm. Bought from Lyon & Healy, Chicago, 1 Oct. 1925.

497. FLUTE IN C. *Anon., late 19th cent.*

6 keys; boxwood with silver fittings; 605 mm. Bought from Lyon & Healy, Chicago, 1 Oct. 1925.

498. FLUTE IN C. *Wünnenberg, Cologne, late 19th cent.*

9 keys; foot to B; grenadilla with silver fittings; 690 mm. Gift of David Hirschlen, San Francisco, 1 Oct. 1925.

499. DOUBLE VERTICAL WHISTLE FLUTE. "*B U S.G.D.G. Duo,*" France (?), *early 20th cent.*

6/0 for both pipes, but holes and whistles are differently spaced; lowest pitches: F<sup>2</sup> (right tube) and A<sup>2</sup> (left tube); pewter; 270 mm. Source unknown, 1 Oct. 1925.

500. FLUTE IN C. *Cahusac, London, late 18th cent.*

1 key; ivory with silver fittings; 605 mm. Bought from John T. Shiel, Walkden, England, 1 Oct. 1925.

501. FLUTE IN A-FLAT. *Anon., early 19th cent.*

4 keys; 2 joints; light colored wood with brass keys and ivory rings; 392 mm. Bought from John T. Shiel, Walkden, England, 1 Oct. 1925.

502. FLUTE IN A-FLAT. *Anon., early 19th cent.*

6 keys; 2 joints; light colored wood with brass keys and ivory rings; 380 mm. Bought from John T. Shiel, Walkden, England, 1 Oct. 1925.

503. FIFE IN B-FLAT. *Anon., late 19th cent.*

Pewter with pewter mouthpiece; 365 mm. Bought from Polly Scully, Lowell, Mass., 1 Oct. 1925.

504. HUNTING PIPE (VERTICAL WHISTLE). *Congo or Angola (Pygmy ?), 19th cent.*

1/0; wood covered with leather and skin (with fur attached) of monkey's tail at lower end; 335 mm. Bought from Jean Mignolet, Denver, Colorado, 1 Oct. 1925.

505. FLUTE IN C. *Martin Frères, Paris, c. 1840.*

Boehm's 1832 system, Dorus G-sharp; rosewood with silver fittings; 672 mm. Bought from Jean Mignolet, Denver, Colorado, 1 Oct. 1925.

506. FLUTE IN C. *Buffet, Crampon & Cie, Paris, c. 1859.*

Boehm's 1832 system, Dorus G-sharp; boxwood enamelled black with brass fittings; foot to D<sup>1</sup>; 600 mm. Bought from Jean Mignolet, Denver, Colorado, 1 Oct. 1925.

507. FLUTE IN C. *J. H. Rottenburgh, Brussels, early 18th cent.*

1 key; 2 upper body joints; boxwood stained reddish brown with brass key and ivory rings; 620 and 650 mm. Bought from Jean Mignolet, Denver, 1 Oct. 1925.

508. FLUTE IN G. *J. B. Willems, Brussels, c. 1765.*

1 key; boxwood stained reddish brown with brass key; 831 mm. Gift of Marcel Demout, Brussels, 1 Oct. 1925.

509. FLUTE IN C. *J. Willems, Brussels, late 18th cent.*

1 key; boxwood with silver key and ivory rings; 630 mm. Bought from Jean Mignolet, Denver, Colorado, 1 Oct. 1925.

510. FLUTE IN C. *Berteling, New York, late 19th cent.*

Boehm system, closed G-sharp; foot to B; grenadilla with silver fittings; 709 mm. Gift of Jay Plowe, Los Angeles, 6 Oct. 1925.

511. FLUTE IN C. *Metzler, London, c. 1812-25.*

8 keys (originally 6 keys; long F and C keys have been added); 3 head joints; wood with silver keys and ivory rings; 664, 675, and 687 mm; illus. (Plate VIII) Girard's *La Flûte*, 1953. Bought from Curtis A. Mees, Charlotte, North Carolina, 8 Oct. 1925.

512. FLUTE IN A-FLAT. *Anon., late 19th cent.*

8 keys; grenadilla with silver fittings; 438 mm. Bought from pawn shop on Prospect Avenue near 14th Street, Cleveland, 10 Oct. 1925.

513. FLUTE IN C. *Garrett, London, mid-19th cent.*

8 keys (Nicholson holes); rosewood with silver fittings; 668 mm. Bought from J. P. Ford-Moore, London, 30 Oct. 1925.

514. DOUBLE FLAGEOLET. *Hastrick, London, 1835-55.*

Right tube: 4/0, 6 keys; left tube: 6/0 7 keys; boxwood with silver keys and ivory rings, studs and beak; 523 mm. Bought from J. P. Ford-Moore, London, 30 Oct. 1925.

515. PICCOLO IN C. *Wylde, London, 1838-52.*

6 keys; rosewood(?) with silver lip plate and silver fittings; 293 mm (without cap). Bought from George R. Myers, Cincinnati, 15 Nov. 1925.

516. FLUTE IN C. *Weisse, Berlin, early 19th cent.*

5 keys; boxwood with brass keys and ivory rings; 614 mm (without cap). Bought from George R. Myers, Cincinnati, 15 Nov. 1925.

517. PICCOLO IN C. *Anon., Dresden, late 18th cent.*

1 key; 2 upper body joints; ebony with silver key and ivory rings; 318 and 323 mm; illus. (Plate VIII) Girard's *La Flûte*, 1953. Gift of W. C. McQuillen, Los Angeles, 17 Nov. 1925.

518. FLUTE IN C. *Kusder, London, 1782.*

1 key; ivory with brass key and silver rings; 600 mm. "Will<sup>m</sup> Merry London April 8th 1782" engraved on silver ring. Key is not original; original key was probably silver. Gift of W. C. McQuillen, Los Angeles, 17 Nov. 1925.

519. FLUTE IN C. *Castel, place unknown, and Joan Panormo, Naples, late 18th cent.*

1 key; curly wood and boxwood with brass key; 633 mm. Upper body joint is of different wood (boxwood) and is marked "IOAN PANORMO." Head joint is made in two pieces: 141 mm. and 91.5 mm. Gift of W. C. McQuillen, Los Angeles, 17 Nov. 1925.

520. FLUTE IN C. *Schultz, Vienna, mid-19th cent.*

12 keys (extra G-sharp for left thumb, extra B-flat lever for right first finger, high E and C on outer side only); foot to B; ebony with rosewood head and barrel, silver keys, and ivory rings; 708 mm. Gift of W. C. McQuillen, Los Angeles, 17 Nov. 1925.

521. FLUTE IN C. *Anon., mid-19th cent.*

9 keys; foot to B; ebony with silver keys and ivory rings; 714 mm. Head and barrel are of different wood—not original. Gift of W. C. McQuillen, Los Angeles, 17 Nov. 1925.

522. FLUTE IN C. *Gisborne, Birmingham, England, 1845-64.*

8 keys; grenadilla(?) with silver tube at embouchure, silver rings inlaid at finger holes, and other silver fittings; 652 mm. Bought from William Powell, Birmingham, England, 23 Nov. 1925.

523. FIFE IN B-FLAT. *Crosby, Boston, mid-19th cent.*

Wood stained brown with silver tips; 397 mm. Bought from Kirkland Coltman, Chicago, 23 Nov. 1925.

524. FLUTE IN E-FLAT. *Hollings, London, 1874-88.*

1 key; boxwood with brass key; 518 mm. Bought from Kirkland Coltman, Chicago, 23 Nov. 1925.

525. RHYTHM STICK(?). *Source unknown.*
- Bamboo pipe closed at both ends; design burned in; 13 holes burned through lower end; small hole in body at upper end; 631 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 7 Dec. 1925.
526. VERTICAL WHISTLE FLUTE. *North American Indian (Sioux), late 19th cent.*
- 5/0; wood stained red with 5 raised rings; lower end in shape of bird's head; 679 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 7 Dec. 1925.
527. VERTICAL WHISTLE FLUTE. *North American Indian (Sioux), late 19th cent.*
- 5/0; wood decorated with many colors; wood flue cover attached with thong; 645 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 7 Dec. 1925.
528. FLUTE IN C. *Clinton & Co., London, 1863-71.*
- Clinton's Equisonant System; cocus or rosewood with silver fittings; 662 mm. Bought from J. Clayton Boyes, Bushey, England, 10 Dec. 1925.
529. VERTICAL WHISTLE FLUTE. *North American Indian (Sioux), late 19th cent.*
- 5 (plus 1 plugged hole)/0; wood stained light yellow with reddish brown stained incised designs; 5 brightly colored feathers attached; 625 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 15 Dec. 1925.
530. VERTICAL WHISTLE. *North American Indian (Sioux), late 19th cent.*
- Hard wood; longitudinal slit 120 mm from the upper end; finger is used as a flue cover and the instrument easily produces overtones; 578 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 15 Dec. 1925.
531. FLUTE IN B-FLAT. *Rudall, Carte & Co., London, 1915*
- Boehm system, closed G-sharp; silver; 740 mm. Bought from William R. Gibbs, Boston, 15 Dec. 1925.
532. VERTICAL WHISTLE FLUTE. *North American Indian (Pottowatomi), late 19th cent.*
- 6/0; wood with spiral "burn" marks entire length of flute; 614 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 23 Dec. 1925.
533. VERTICAL WHISTLE FLUTE. *North American Indian (Iroquois), late 19th cent.*
- 6/0; wood stained canary yellow; bound with thong; flue cover carved in shape of horse; 450 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 23 Dec. 1925.
534. VERTICAL WHISTLE FLUTE. *North American Indian (Winnebago), late 19th cent.*
- 6/0; wood stained brown with a few yellow streaks; flue cover carved in form of bird's head; 538 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 23 Dec. 1925.
535. VERTICAL WHISTLE FLUTE. *North American Indian (Chippewa), late 19th cent.*
- 6/0, tassels holes; nickel plated brass tube; wood flue cover carved in shape of horse's head; brightly colored braided wool tassels; 563 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 23 Dec. 1925.
- 536-A. WHISTLE. *North American Indian (Crow), late 19th cent.*
- Bone; 200 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 23 Dec. 1925.
- 536-B. WHISTLE. *North American Indian (Crow), late 19th cent.*
- Bone; 222 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 23 Dec. 1925.
537. WHISTLE. *North American Indian (Chippewa), late 19th cent.*
- Bone with neck strap of thong; 165 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 23 Dec. 1925.
538. WHISTLE. *North American Indian (Sioux), late 19th cent.*
- Bone entirely covered with hide; 196 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 23 Dec. 1925.



539. VERTICAL WHISTLE FLUTE.  
*North American Indian (Sioux), late 19th cent.*

5/0; wood stained brown; turtle carved on flue cover; 348 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 29 Dec. 1925.

540. VERTICAL WHISTLE FLUTE.  
*North American Indian (Sioux), late 19th cent.*

5/0; wood stained red; band of pink and blue beads at lower end; 460 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 29 Dec. 1925.

541. VERTICAL WHISTLE FLUTE.  
*North American Indian (Sioux), late 19th cent.*

5/0; wood stained brown; turtle and other design burned in; feather attached; 473 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 29 Dec. 1925.

542. VERTICAL WHISTLE FLUTE.  
*North American Indian (Sioux), late 19th cent.*

5/0; wood stained light brown with designs burned in; bird carved on flue cover; 478 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 29 Dec. 1925.

543. VERTICAL WHISTLE FLUTE.  
*North American Indian (Sioux), late 19th cent.*

5/0; wood stained bright red; 5 turtles carved on flute, 1 on flue cover; 635 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 29 Dec. 1925.

544. VERTICAL WHISTLE FLUTE.  
*North American Indian (Sioux), late 19th cent.*

5/0; wood stained brownish purple; turtle carved on both sides; dog carved on flue cover; 645 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 29 Dec. 1925.

545. VERTICAL WHISTLE FLUTE.  
*North American Indian (Sioux), late 19th cent.*

5/0; light brown wood with holes and designs burned in; bands of red, white and purple stain at upper end; 692 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 29 Dec. 1925.

546. VERTICAL WHISTLE FLUTE.  
*North American Indian (Sioux), late 19th cent.*

5/0; wood stained reddish brown with incised designs; feather attached; 750 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 29 Dec. 1925.

547. WHISTLE. *Honduras, early 20th cent.*

Unglazed pottery in the form of a monkey(?); height 47 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 29 Dec. 1925.

548. VERTICAL WHISTLE FLUTE.  
*North American Indian (Pueblo), late 19th cent.*

4/0; wood stained yellow with red and purple figures including a deer; incised stars; flue cover attached with resin; 388 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 4 Jan. 1926.

549. VERTICAL WHISTLE FLUTE.  
*North American Indian (Omaha), late 19th cent.*

7 (lowest hole is plugged)/0; wood stained light green; blow tube is leg bone of turkey or eagle; 610 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 4 Jan. 1926.

550. VERTICAL WHISTLE FLUTE.  
*North American Indian (Winnebago), late 19th cent.*

6/0; wood stained red with iron ferule at upper end; 533 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 4 Jan. 1926.

551. VERTICAL WHISTLE FLUTE.  
*North American Indian (Winnebago), late 19th cent.*

6/0; light brown wood with 15 inlaid lead rings; duck(?) carved on flue cover; 592 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 4 Jan. 1926.

552. OCARINA. *H. Fiehn, Vienna, 1925.*

8/2; lowest pitch B-flat<sup>2</sup>; black clay with gilt markings; 112 mm. Bought from J. W. Jenkins Music Co., Kansas City, Missouri, 31 Dec. 1925.

553. OCARINA. *H. Fiehn, Vienna, 1925.*  
8/2; lowest pitch D<sup>2</sup>; black clay with gilt markings; 144 mm. Bought from J. W. Jenkins Music Co., Kansas City, Missouri, 31 Dec. 1925.
554. OCARINA. *H. Fiehn, Vienna, 1925.*  
8/2; lowest pitch B-flat<sup>1</sup>; black clay with gilt markings; 170 mm. Bought from J. W. Jenkins Music Co., Kansas City, Missouri, 31 Dec. 1925.
555. OCARINA. *H. Fiehn, Vienna, 1925.*  
8/1; lowest pitch F<sup>1</sup>; black clay with gilt markings; 202 mm. Bought from J. W. Jenkins Music Co., Kansas City, Missouri, 31 Dec. 1925.
556. OCARINA. *H. Fiehn, Vienna, 1925.*  
7/1; lowest pitch E-flat<sup>1</sup>; black clay with gilt markings; 195 mm. Bought from J. W. Jenkins Music Co., Kansas City, Missouri, 31 Dec. 1925.
557. OCARINA. *H. Fiehn, Vienna, 1925.*  
7/1; lowest pitch D<sup>1</sup>; black clay with gilt markings; 217 mm. Bought from J. W. Jenkins Music Co., Kansas City, Missouri, 31 Dec. 1925.
558. OCARINA. *H. Fiehn, Vienna, 1925.*  
7/1; lowest pitch small G; black clay with gilt markings; 258 mm. Bought from J. W. Jenkins Music Co., Kansas City, Missouri, 31 Dec. 1925.
559. OCARINA. *H. Fiehn, Vienna, 1925.*  
8/2; lowest pitch F-sharp<sup>2</sup>; black clay with gilt markings; 127 mm. Bought from J. W. Jenkins Music Co., Kansas City, Missouri, 31 Dec. 1925.
560. NOSE FLUTE. *Java, c. 1893.*  
6/0; cane with finger holes and designs burned in; 539 mm. Gift of Charles K. Wead estate, Ann Arbor, Michigan, 4 Jan. 1926.
561. NOSE FLUTE. *Java, c. 1893.*  
6/0; cane with finger holes and designs burned in; 376 mm. Gift of Charles K. Wead estate, Ann Arbor, Michigan, 4 Jan. 1926.
562. PICCOLO IN C. *Wm. S. Haynes Co., Boston, c. 1926.*  
Boehm system, closed G-sharp; silver; 315 mm; illus. (Plate xxvii) Girard's *La Flûte*, 1953. Bought from Wm. S. Haynes Co., Boston, 4 Jan. 1926.
563. FLUTE IN C. *J. A. & W. Geib, New York, 1818-21.*  
1 key; boxwood with silver key and ivory rings; 604 mm. Bought from R. C. Hurry, New York, 20 Jan. 1926.
564. VERTICAL WHISTLE FLUTE. *North American Indian (Sioux), late 19th cent.*  
5/0; wood stained dark brown with 20 round-headed tacks driven in upper end for decoration; design of beads sewn on skin wrapped around lower end; 537 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 20 Jan. 1926.
565. VERTICAL WHISTLE FLUTE. *North American Indian (Sioux), late 19th cent.*  
5/0; wood stained red with 2 black rings; forms into fish's or snake's head at lower end; band of beads attached; 403 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 20 Jan. 1926.
566. WHISTLE. *North American Indian (Sioux), late 19th cent.*  
Bone; 109 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 20 Jan. 1926.
567. FLUTE IN C. *Manzane, London, early 19th cent.*  
8 keys; ivory with silver fittings; 659 mm. Bought from S. J. Pegg, Leicester, England, 23 Jan. 1926.
568. FLUTE IN C. *Meacham & Pond, Albany, New York, 1828-33.*  
1 key; boxwood with brass fittings; 604 mm. Bought from Charles W. Gray, Brisben, New York, 29 Jan. 1926.

569. FLUTE IN C. *Metzler & Co., London, c. 1837-50.*

8 keys; cocus with silver tube at embouchure, silver insets at finger holes and other silver fittings; 655 mm. Bought from William Powell, Birmingham, England, 10 Feb. 1926.

570. FRENCH FLAGEOLET. *Buffet, Crampon & Cie, Paris, c. 1926.*

8 keys, 5 rings; cocus with silver fittings and pearl beak; 418 mm. Bought from Baxter-Northup Co., Los Angeles, 25 Feb. 1926.

571. FLUTE IN C. *P. G. Milnes, Ipswich, England, c. 1860.*

8 keys; rosewood with silver fittings; 647 mm. Gift of M. Earl, Oakland, California, 16 Feb. 1926.

572. FLUTE IN C. *Cornelius Ward, London, c. 1842.*

Ward's patent system; 2 head joints, 1 with patent tuning adjustment; rosewood with silver fittings; 653 and 664 mm. Bought from J. Clayton Boyes, Bushey, England, 23 Feb. 1926.

573. FLUTE IN C. *Herman Wrede, London, 1810-1846.*

1 key; boxwood with brass fittings; 610 mm (without cap). Bought from O. C. Lingg, Boulder, Colorado, 15 March 1926.

574. VERTICAL WHISTLE FLUTE. *North American Indian (Haida), late 19th cent.*

4/0; argillite carved in high relief with six human figures; 238 mm. Bought from W. R. Conrad, San Francisco, 23 March 1926.

575. VERTICAL WHISTLE FLUTE. *North American Indian (Assiniboine Sioux), late 19th cent.*

5/0; wood stained brown with bird claw attached; bird(?) carved on flue cover; bear carved in wood glued at lower end; 365 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 30 March 1926.

576. VERTICAL WHISTLE FLUTE. *North American Indian (Sisseton Sioux), late 19th cent.*

5/0; wood stained light yellow forming into snake's or bird's head at lower end;

red pipestone flue cover; 452 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 30 March 1926.

577. VERTICAL WHISTLE FLUTE. *North American Indian (Sioux), late 19th cent.*

5/0; wood stained brown with design burned in; carved greystone flue cover; feathers and colored grass wrapped around thong attached; 327 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 30 March 1926.

578. WHISTLE. *North American Indian (Sacramento County, California), 19th cent.*

Bone decorated with incised lines; 56 mm. Found in an Indian grave in Sacramento County. Bought from N. E. Carter, Elkhorn, Wisconsin, 30 March 1926.

579. WHISTLE. *North American Indian (Sacramento County, California), 19th cent.*

Bone; 82 mm. Found in an Indian grave in Sacramento County. Bought from N. E. Carter, Elkhorn, Wisconsin, 30 March 1926.

580. FLUTE IN E-FLAT. *Firth and Hall, New York, 1821-33.*

1 key; boxwood with brass key and ivory rings; 508 mm (without cap). Gift of A. W. Ward, Seattle, Washington, 31 March 1926.

581. FLUTE IN C. *Rudall, Carte & Co., London, late 19th cent.*

Carte's 1867 patent; cocus or grenadilla with silver fittings; 658 mm. Bought from G. Meriggioli, Seattle, Washington, 31 March 1926.

582. FLUTE IN C. *Monzani & Co., London, 1814-20.*

9 keys; 2 head joints; rosewood with silver fittings; 675 mm. Bought from William Powell, Birmingham, England, 6 Apr. 1926.

583. FLUTE IN C. *T. Prowse, London, c. 1822-36.*

8 keys ("C. Nicholson's Improved"); cocus with silver lip plate and silver fittings; 660 mm. Bought from J. Clayton Boyes, Bushey, England, 1 May 1926.

584. FLUTE IN A-FLAT. *I. T. Uhlmann, Vienna, early 19th cent.*

12 keys; foot to G; satinwood with silver fittings; 873 mm. Bought from Eugene Weinberger, New York, 29 Apr. 1926.

585. VERTICAL WHISTLE FLUTE. *North American Indian (Sioux), late 19th cent.*

5/0; wood stained red with snake carved in high relief around flute; red pipestone flue cover carved in form of a rabbit; 570 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 5 May 1926.

586. FLUTE IN C. *Potter, London, late 18th cent.*

4 keys; boxwood with silver keys and ivory rings; flute has Potter's patent register; 578 mm. Bought from A. Blaker, London, 9 June 1926.

587. FLUTE IN C. *Clementi & Co., London, c. 1822-32.*

8 keys ("C. Nicholson's Improved"); cocus(?) with silver fittings; 665 mm. Bought from A. Blaker, London, 9 June 1926.

588. FLUTE IN C. *Jérôme Thibouville-Lamy, Paris, mid-19th cent.*

11 keys; cocus with silver fittings; 671 mm. Bought from A. Blaker, London, 9 June 1926.

589. CUCKOO PIPE. *Anon., early 20th cent.*

1/0; wood; with a tuning slide; 159 mm. Bought from A. Blaker, London, 9 June 1926.

590. FLUTE IN C. *Clementi & Co., London, early 19th cent.*

1 key; wood stained brown with brass key and ivory rings; 593 mm. Bought from Fenton, London, 14 June 1926.

591. CUCKOO PIPE. *Anon., early 20th cent.*

1/0; rosewood with metal tuning slide; sounds A-flat<sup>2</sup> and F<sup>2</sup>; 60 mm. Bought from Fenton, London, 14 June 1926.

592. FLUTE IN C. *Anon., late 18th cent.*

1 key; flute has 8 pieces; ivory with silver key; 617 mm. Bought from Fenton, London, 14 June 1926.

593. FLUTE IN G. *Wigley & McGregor, London, 1811-16.*

4 keys plus 2 keys for highest and lowest finger holes (British Patent No. 3349, McGregor, 1810); boxwood with silver keys and ivory rings; 673 mm. Bought from Arnold Dolmetsch, Haselmere, England, 23 June 1926.

594. FLUTE IN G. *Bilton, London, 1840-41(?)*.

8 keys; boxwood with brass keys and ivory rings; 875 mm. Bought from Arnold Dolmetsch, Haselmere, England, 23 June 1926.

595. FLUTE IN C. *S. Koch, Vienna, early 19th cent.*

9 keys (low B is operated by right thumb); foot to B; ebony with silver keys and ivory rings; 716 mm. Bought at Puttick & Simpson auction, London, 24 June 1926.

596. FLUTE IN E-FLAT. *Rudall, Carte & Co., London, early 20th cent.*

6 keys; ebonite with silver fittings; 510 mm. Bought from A. Blaker, London, 26 June 1926.

597. FLUTE IN C. *W. Bark, London, c. 1836-48.*

8 keys; rosewood with silver fittings; 648 mm (without cap). Bought from A. Blaker, London, 26 June 1926.

598. FLAGEOLET-FLUTE (PART ONLY). *Bainbridge, London, 1808-31.*

Head and barrel only; boxwood with ivory rings; 212 mm. Bought from A. Blaker, London, 26 June 1926.

599. FLUTE IN C (PART ONLY). *Key, London, early 19th cent.*

9 keys; head and barrel joints are missing; boxwood with silver keys and ivory rings; 465 mm. Bought from A. Blaker, London, 26 June 1926.

600. FLUTE IN C. *Gerock & Wolf, London, 1831-32.*

6 keys; foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 665 mm. Bought from A. Blaker, London, 26 June 1926.

601. FLUTE IN C. *Proff, Tours, late 18th cent.*

1 key; boxwood with silver key and ivory rings; 612 mm. Bought from Pierre Schneider, Paris, 15 July 1926.

602. FLUTE IN C. *Bellissent, Paris, 1818-42.*

6 keys; yellow wood with brass keys and ivory rings; 614 mm. Bought from Au Berceau Royal, Paris, 17 July 1926.

603. FIFE IN D-FLAT. *Thibouville Frères, Ivry (Eure), mid-19th cent.*

6/1, 1 key; wood with silver fittings; 356 mm. Bought from E. Angles, Paris, 17 July 1926.

604. FLUTE IN C. *Holtzapfel, Paris, c. 1823-46.*

8 keys; ebony with silver fittings; 677 mm. DCM: "Unique action for low C & C-sharp keys, with screw to hold them shut." Bought from E. Angles, Paris, 17 July 1926.

605. FLUTE IN C. *Triebert, Paris, mid-19th cent.*

5 keys; rosewood with silver fittings; 613 mm. Bought from E. Angles, Paris, 17 July 1926.

606. FLUTE IN C. *Noë Frères, Paris c. 1840.*

4 keys; rosewood with silver keys and ivory rings; 614 mm. Bought from E. Angles, Paris, 17 July 1926.

607. FLUTE IN C. "*T[hibou(?)vile Frere,*" Paris, mid-19th cent.

5 keys; ebony with silver fittings; 612 mm. Bought from E. Angles, Paris, 17 July 1926.

608-A. VERTICAL WHISTLE FLUTE. *Hercule, Paris, 1926.*

6/0; lowest pitch D<sup>2</sup>; white celluloid; 294 mm. Bought at music shop on Rue du Louvre, Paris, 21 July 1926.

608-B. VERTICAL WHISTLE FLUTE. *Hercule, Paris, 1926.*

6/0; lowest pitch F<sup>2</sup>; white celluloid; 249 mm. Bought at music shop on Rue du Louvre, Paris, 21 July 1926.

608-C. VERTICAL WHISTLE FLUTE. *Hercule, Paris, 1926.*

6/0; lowest pitch G<sup>2</sup>; white celluloid; 224 mm. Bought at music shop on Rue du Louvre, Paris, 21 July 1926.

609. FLUTE IN G. *Th. Boehm & Mender, Munich, 1862-81.*

Boehm system, Schleif key, closed G-sharp (originally open); silver, hard rubber lip plate with gold lined embouchure; 876 mm. Bought from Jean Boulze, Paris, 24 July 1926.

610. "SUPER-OCTAVE PICCOLO" IN C(?). *Anon., 19th cent.*

1 key plus 6 covered finger holes; lowest pitch D<sup>3</sup>(?); wood with brass keys and ivory ring; 342 mm. DCM: "Block of hard wood partly stained brown, with a 'tube' formed in the interior, speaking length, 132 mm . . . , with six 'finger' holes and D-sharp hole. All holes are covered with flat brass keys, each having an extension lever-system so that the 'touch' pieces are spread out over 140 mm below the 'open lower' end of the tube." Bought from Auguste Buffet, Paris, 26 July 1926.

611. FLUTE IN C. *Claude Laurent, Paris, 1818.*

4 keys; glass with silver fittings; 618 mm. DCM: "The whole inner surface is polished and the outer surface is cut in concave diamond-shaped facets. Each key has an amethyst or garnett as big as the key mounted on the upper surface." Illus. (Plate x) Girard's *La Flûte*, 1953. Bought from André Rossignol, Paris, 28 July 1926.

612. WALKING STICK FLUTE IN C. *Anon., early 19th cent.*

1 key; brown wood with imitation knots, wood key, and brass and iron tip; 860 mm. Bought from André Rossignol, Paris, 28 July 1926.

613. WALKING STICK ENGLISH FLAGEOLET. *Anon., early 19th cent.*

7/1, 1 key; yellow wood with brass key and ivory and brass rings; 753 mm. Bought from André Rossignol, Paris, 28 July 1926.

614. FLUTE IN C. *Leroux, Paris, 1839-67.*

1 key; yellow wood with brass key and black horn rings; 616 mm. Bought from André Rossignol, Paris, 28 July 1926.

615. FLUTE IN C. *T. Lot, Paris, mid-18th cent.*

1 key; boxwood with silver key and ivory rings; 636 mm. Bought from André Rossignol, Paris, 28 July 1926.

616. FLUTE IN C. *B. Cabailh, Paris, late 18th cent.*

1 key; yellow wood with silver key and ivory rings; 610 mm. Bought from André Rossignol, Paris, 28 July 1926.

617. FLUTE IN C. *Guillaume Triebert, Paris, c. 1810-48.*

5 keys; ebony with silver keys and ivory rings; 618 mm. Bought from André Rossignol, Paris, 28 July 1926.

618. FLUTE IN C. *Hérouard Frères, Paris, mid-19th cent.*

1 key; boxwood with silver key and ivory rings; 622 mm. Bought from André Rossignol, Paris, 28 July 1926.

619. FLUTE IN C (PART ONLY). *A. Grenser, Dresden, 1739-96.*

1 key; head, lower body, and foot only; boxwood with silver key and ivory rings; 463 mm. According to DCM's record this specimen was purchased with an upper body joint marked "2/G.A./Rottenburgh" but this joint has not turned up in the collection. Bought from André Rossignol, Paris, 28 July 1926.

620. ENGLISH FLAGEOLET. *Simpson, London, c. 1826-50.*

6/0, 5 keys; rosewood with silver keys and ivory rings and studs; 480 mm (without beak). Bought from André Rossignol, Paris, 28 July 1926.

621. ENGLISH FLAGEOLET. *C. Gerrock, London, 1804-21.*

7/1, 1 key; rosewood with silver key and ivory beak, rings and studs; 426 mm. Bought from André Rossignol, Paris, 28 July 1926.

622. PICCOLO IN C(?). *Martin, Paris, c. 1827-40.*

1 key; boxwood with brass key and black horn rings; 331 mm. Bought from André Rossignol, Paris, 28 July 1926.

623. FRENCH FLAGEOLET. *Martin, Paris, c. 1827-40.*

4/2; rosewood or cocus with ivory rings and beak; 200 mm. Bought from André Rossignol, Paris, 28 July 1926.

624. FRENCH FLAGEOLET. *Naust, Paris, early 19th cent.*

4/2; ebony with ivory rings and beak; 198 mm. Bought from André Rossignol, Paris, 28 July 1926.

625. FRENCH FLAGEOLET. *Noblet Jeune, Père & Fils, Paris, c. 1860.*

4/2; rosewood with ivory rings and beak; 162 mm. Bought from André Rossignol, Paris, 28 July 1926.

626. FRENCH FLAGEOLET. *Anon., mid-19th cent.*

4/2; ebony with ivory rings and beak; 258 mm. Bought from André Rossignol, Paris, 28 July 1926.

627. FRENCH FLAGEOLET. *Treumann, Lyon, c. 1840.*

4/2, 1 key; yellow wood with brass key and hard rubber rings and beak; 375 mm. Bought from André Rossignol, Paris, 28 July 1926.

628. FRENCH FLAGEOLET. *Noblet & Thibouville, Ivry la Bataille, c. 1863.*

4/2, 3 keys; yellow wood with brass fittings; 320 mm (without beak). Bought from André Rossignol, Paris, 28 July 1926.

629. FLUTE IN C. *Klein, Cologne, mid-19th cent.*

11 keys (uppermost key, which sounds F, is forked with 2 cups); foot to B; yellow wood with silver keys and ivory rings; 695 mm. Bought from André Rossignol, Paris, 28 July 1926.

630. END-BLOWN FLUTE. *Source unknown.*

6/0; bamboo with 8 knots, each wound with silver covered thread; silver end pieces; 783 mm. Bought from André Rossignol, Paris, 28 July 1926.

631. FLUTE IN C (PART ONLY). *T. Boehm, Munich, c. 1829.*

3 keys (originally 8?); head, barrel, and upper body joint; boxwood with brass keys and ivory and brass rings; 413 mm. Bought from André Rossignol, Paris, 28 July 1926.

632. CUCKOO WHISTLE. *Anon., 19th cent.*

1/0; redwood(?) carved at lower end; 168 mm. Bought from André Rossignol, Paris, 28 July 1926.

633. CROSS FLUTE. *Southeast Asia (?) 19th cent.*

6/0; yellow wood with a natural bore, slightly curved, highly carved ornamentation for the entire length; 242 mm. Bought from André Rossignol, Paris, 28 July 1926.

634. VERTICAL WHISTLE FLUTE. *Anon., 19th cent.*

7 keys (2 perforated); light colored wood with brass fittings; 247 mm. Bought from André Rossignol, Paris, 28 July 1926.

635. DOUBLE FLUTE HARMONIQUE. *I. P. Lebrun, Brussels, c. 1830.*

7 (6 are twin holes)/1 (twin hole); lowest pitches: F<sup>2</sup> (right channel) and A-flat<sup>2</sup> (left channel); ebony with 2 silver ferrules; 245 mm. Bought from André Rossignol, Paris, 28 July 1926.

636. FLUTE IN C. *Potter, London, early 19th cent.*

7 keys; foot to C<sup>1</sup>; barrel joint missing; ebony with silver keys and ivory rings; 610 mm (without barrel). Bought from F. Perks & Co., London, 3 Aug. 1926.

637. FLUTE IN C. *Liddle, London, 1847-79.*

6 keys plus 3 plates (Nicholson holes); foot to D<sup>1</sup>; rosewood with silver fittings; 596 mm. DCM: "Made for left-handed

use, and altered to accommodate right hand with thumb, first and second fingers partly amputated (the first or second joint)." Bought from H. Field Antiques, Oxford, 11 Aug. 1926.

638. FLUTE IN C. *Rudall, Carte & Co., London, c. 1880.*

8 keys plus 6 covered finger holes (1 perforated); cocus with silver fittings; 653 mm. Bought from William Powell, Birmingham, England, 13 Aug. 1926.

639. FLUTE IN B-FLAT. *Hawkes & Son, London, early 20th cent.*

6 keys plus 4 covered finger holes; foot to C<sup>1</sup>; recurved head; ebonite with silver head and silver fittings; 575 mm. Bought from Donald Critchett, London, 14 Aug. 1926.

640. WHISTLE. *Anon., 19th cent.*

Ivory carved in the form of a lion's head and folded paws surmounted by a crown; 71 mm. Bought from Fenton & Son, London, 17 Aug. 1926.

641-A. VERTICAL WHISTLE FLUTE IN G. "*J.H., London, c. 1926.*

6/0; metal lacquered gold color; 211 mm. Bought from A. V. Ebbelwhite, London, 17 Aug. 1926.

641-B. VERTICAL WHISTLE FLUTE IN F. "*J.H., London, c. 1926.*

6/0; metal lacquered gold color; 236 mm. Bought from A. V. Ebbelwhite, London, 17 Aug. 1926.

641-C. VERTICAL WHISTLE FLUTE IN E-FLAT. "*J.H., London, c. 1926.*

6/0; metal lacquered gold color; 268 mm. Bought from A. V. Ebbelwhite, London, 17 Aug. 1926.

641-D. VERTICAL WHISTLE FLUTE IN D. "*J.H., London, c. 1926.*

6/0; metal lacquered gold color; 283 mm. Bought from A. V. Ebbelwhite, London, 17 Aug. 1926.

641-E. VERTICAL WHISTLE FLUTE IN C. "*J.H., London, c. 1926.*

6/0; metal lacquered gold color; 320 mm. Bought from A. V. Ebbelwhite, London, 17 Aug. 1926.

- 641-F. VERTICAL WHISTLE FLUTE IN B-FLAT. "J.H.," London, c. 1926.  
6/0; metal lacquered gold color; 358 mm. Bought from A. V. Ebbelwhite, London, 17 Aug. 1926.
- 641-G. VERTICAL WHISTLE FLUTE IN A. "J.H.," London, c. 1926.  
6/0; metal lacquered gold color; 374 mm. Bought from A. V. Ebbelwhite, London, 17 Aug. 1926.
- 641-H. VERTICAL WHISTLE FLUTE IN G. "J.H.," London, c. 1926.  
6/0; metal lacquered gold color; 426 mm. Bought from A. V. Ebbelwhite, London, 17 Aug. 1926.
642. FLUTE IN C. *Rudall, Rose, Carte & Co., London, c. 1857-71.*  
8 keys; rosewood or cocus with silver fittings; 660 mm. Bought from J. Clayton Boyes, Bushey, England, 20 Aug. 1926.
643. VERTICAL WHISTLE FLUTE. *Anon., early 20th cent.*  
6/0; tin enameled black; 362 mm. Bought from J. Polfiet, Brussels, 20 Aug. 1926.
644. FLUTE IN C. *H. Grenser, Dresden, 1806-24.*  
4 keys; 3 upper body joints; ebony with silver keys and ivory rings; 640, 647, and 655 mm. DCM: "Foot joint unique; it extends below usual length and the speaking open end is determined by a lateral hole." Bought from Debelaer Antiques, Brussels, 23 Aug. 1926.
645. FLUTE IN C. *F. Hofinger, Brussels, c. 1911.*  
Boehm system, closed G-sharp; silver with inner tube of gold and silver fittings; 674 mm. Bought from Florent Hofinger, Brussels, 24 Aug. 1926.
- 646-A. WHISTLE. *Anon., early 20th cent.*  
Wooden bird (pink with white head and blue wings and tail) perched on top of whistle; whistle has water chamber for warbling effect; 107 mm. Bought from a shop in Lucerne, 25 Aug. 1926.
- 646-B. WHISTLE. *Anon., early 20th cent.*  
Wooden bird (red with black wings and tail) perched on log; 155 mm. Bought from a shop in Lucerne, 25 Aug. 1926.
647. OCARINA. *Anon., early 20th cent.*  
8/2; lowest pitch D<sup>2</sup>; blue majolica with gilt decorations and flower medallion near mouthpiece; 173 mm. Bought from Jacob's Musikhaus, Munich, 8 Sept. 1926.
648. OCARINA. *Anon., early 20th cent.*  
8/2; lowest pitch C-sharp<sup>2</sup>; white majolica with gilt markings and colored flowers; 177 mm. Bought from Sigmund Koch, Munich, 8 Sept. 1926.
649. FIFE IN C. *Anon., Germany, early 20th cent.*  
7/0; ebony with silver tips; 375 mm. "Musikhaus Koch/München" stamped on fife. Bought from Sigmund Koch, Munich, 8 Sept. 1926.
650. FLUTE IN C. *I. G. Helt, place unknown, late 18th cent.*  
1 key; boxwood with brass key and ivory rings; middle joint has been cut to raise pitch; 588 mm. Bought from Sigmund Koch, Munich, 8 Sept. 1926.
651. FLUTE IN C. *Godfroy aîné, Paris, 1825.*  
6 or 7 keys (one joint has B-flat for thumb and high C for right index finger; two joints have high C for thumb and B-flat for thumb and right index finger); 3 upper middle joints; rosewood with silver fittings; 628, 631, and 638 mm. Bought from Sigmund Koch, Munich, 8 Sept. 1926.
652. FLUTE IN C. *Th. Boehm, Munich, 1847.*  
Boehm's 1847 system; 2 joints; brass with wood tube at embouchure and silver fittings; 635 mm. No. 1 of two brass flutes listed in Boehm's record book. Bought from Sigmund Koch, Munich, 9 Sept. 1926.
653. FLUTE IN C. *Th. Boehm, Munich, 1848.*  
Boehm system, open G-sharp; silver with ivory tube at embouchure; 631 mm.



Boehm's No. 21. Flute is said to have belonged to Knierer, a former pupil of Boehm. Bought from Sigmund Koch, Munich, 9 Sept. 1926.

654. FLUTE IN C. *Rodol. Greve or Boehm & Greve, Munich, before 1838.*

Boehm's 1832 system, open G-sharp; 2 head joints; foot extends below usual length and the speaking open end is determined by a lateral hole; boxwood with silver keys and brass rings; 661 mm; illus. (Plate XIII) Girard's *La Flûte*, 1953. Bought from Sigmund Koch, Munich, 9 Sept. 1926. (See illustration.)

655. FLUTE IN E-FLAT. *Rodol. Greve, Munich, 1833-46.*

Boehm's 1832 system, open G-sharp; boxwood with brass fittings; 514 mm. Bought from Sigmund Koch, Munich, 9 Sept. 1926.

656. FLUTE IN E-FLAT. *Rodol. Greve, Munich, 1833-46.*

7 keys; foot to E<sup>1</sup>; boxwood with brass fittings; 535 mm. Bought from Sigmund Koch, Munich, 9 Sept. 1926.

657. FLUTE IN C. *Boehm & Greve, Munich, c. 1828-32.*

8 keys; boxwood with brass keys and ivory rings; 662 mm. Bought from Sigmund Koch, Munich, 9 Sept. 1926.

658. ALTO RECORDER IN F. *H. Schell, place unknown, mid-18th cent.*

7/1; boxwood; 503 mm. Bought from Sigmund Koch, Munich, 9 Sept. 1926.

659. ENGLISH FLAGEOLET. *Anon., 1828-37.*

6/0, 8 keys; ebony with ivory beak, silver keys, and elaborate silver mountings; 528 mm. Flageolet is stamped "I. Ebner/München" (a dealer, not a maker). Bought from Sigmund Koch, Munich, 9 Sept. 1926.

660. FLUTE IN C. *Piering, Berlin, late 18th cent.*

2 keys (D-sharp and G-sharp); 3 upper body joints; ebony(?) with silver keys and ivory rings; 619, 627, and 634 mm. Bought from Sigmund Koch, Munich, 9 Sept. 1926.

661. DOUBLE VERTICAL WHISTLE FLUTE. *Serbia, 19th cent.*

3/0 (right channel) and 4/0 (left channel); hard wood; 282 mm. "Miloš N. Ignjatović" is carved on instrument. Bought from Sigmund Koch, Munich, 9 Sept. 1926.

662. PANPIPES. *Source unknown 19th cent.*

22 pipes; range B<sup>1</sup>-G-sharp<sup>3</sup>; bamboo 192-30 mm. Bought from Sigmund Koch, Munich, 10 Sept. 1926.

663. SOPRANO RECORDER IN C. *Lorenz Walch, Berchtesgaden, Germany, mid-19th cent.*

7/1; light wood with black horn rings; 340 mm. Bought from Sigmund Koch, Munich, 10 Sept. 1926.

664. PICCOLO IN C. *Stengel, Bayreuth, early 19th cent.*

1 key; boxwood with brass key and horn rings; 320 mm. Bought from Sigmund Koch, Munich, 10 Sept. 1926.

665. KHLUI PIANG-AW (VERTICAL WHISTLE FLUTE). *Thailand, early 20th cent.*

7/1, membrane hole; bamboo stained with crisscross lines and figures; 443 mm. Bought from André Rossignol, Paris, 13 Sept. 1926.

666. FRENCH FLAGEOLET. *Thibouville Frères, "La Couture," c. 1857-75.*

4/2; boxwood with ivory rings; 426 mm (without beak). Bought from André Rossignol, Paris, 13 Sept. 1926.

667. PICCOLO IN C. *Lot, Paris, c. 1775-85.*

1 key; boxwood with brass key and black horn rings; 330 mm. Bought from André Rossignol, Paris, 13 Sept. 1926.

668. FRENCH FLAGEOLET. *Martin, Paris(?), c. 1827-40.*

4/2; boxwood with horn rings and beak; 165 mm. Bought from André Rossignol, Paris, 13 Sept. 1926.

669. FRENCH FLAGEOLET. *Martin, Paris(?)*, c. 1827-40.  
4/2; ebony with ivory rings and beak; 165 mm. Bought from André Rossignol, Paris, 13 Sept. 1926.
670. FLUTE IN C. *Claude Laurent, Paris, 1826.*  
8 keys; fluted crystal glass with silver fittings; 672 mm; illus. (Plate x) Girard's *La Flûte*, 1953. Bought from André Rossignol, Paris, 13 Sept. 1926.
671. FLUTE IN C. *Anon., late 18th cent.*  
4 keys; ebony with silver keys and ivory rings; 623 mm. Gift of W. C. McQuillen, Los Angeles, 15 Sept. 1926.
672. PICCOLO IN C. *A. Osmanek, Schönbach, mid-19th cent.*  
6 keys; yellow wood with brass fittings; 291 mm (without cap). Gift of W. C. McQuillen, Los Angeles, 15 Sept. 1926.
673. FLUTE IN C. *Leop. Mitsching, Elberfeld, Germany, c. 1890.*  
13 keys; foot to B; grenadilla with ivory head and silver fittings; 722 mm. Bought from William Powell, Birmingham, England, 15 Sept. 1926.
674. HORIZONTAL WHISTLE FLUTE. *Calcutta, early 20th cent.*  
6/0; bamboo decorated with 14 bands of tinfoil; bound with brass wire between blow tube and flue; 379 mm. Gift of J. S. Lovejoy, Calcutta, 23 Sept. 1926.
675. HICHIRIKI (DOUBLE-REED PIPE). *Japan, early 20th cent.*  
7/2; cane bound with wrappings of string lacquered black; 209 mm. Gift of John T. Shiel, Walkden, England, 24 Sept. 1926.
676. FLUTE IN F(?). *Anon., London, late 19th cent.*  
5 keys; grenadilla with silver fittings; very large embouchure; 497 mm. Gift of John T. Shiel, Walkden, England, 24 Sept. 1926.
677. PICCOLO IN C. *A. Buffet Jne., Paris, mid-19th cent.*  
5 keys; gilded metal with ivory tube at embouchure; 325 mm. Bought from John T. Shiel, Walkden, England, 24 Sept. 1926.
678. FLUTE IN C. *Rudall, Carte & Co., Ltd., London, 1921.*  
Boehm system adapted to specifications of Mr. Daintith(?); open G-sharp; 2 joints; cocus with head lined with gold and silver fittings; 680 mm. Bought from John T. Shiel, Walkden, England, 24 Sept. 1926.
679. "CONTRA BASS" FLUTE IN C. *Gino Bartoli, Milan, c. 1925.*  
Boehm system, closed G-sharp; lowest pitch small C; recurved head; silver; 924 mm; illus. (Plate xxvii) Girard's *La Flûte*, 1953. Bought from Gino Bartoli, Milan, 3 Oct. 1926.
680. PICCOLO IN C. *C. Bonnet, New York, 1883-1910.*  
Boehm system, closed G-sharp; cocus with silver fittings; 304 mm. Bought from Baxter-Northup Co., Los Angeles, 3 Nov. 1926.
681. WHISTLE. *North American Indian (Sacramento County, California), 19th cent.*  
Bone decorated with bands of incised lines at each end; 78 mm. Found in Indian graves in Sacramento County. Bought from N. E. Carter, Elkhorn, Wisconsin, 16 Nov. 1926.
682. WHISTLE. *North American Indian (Sacramento County, California), 19th cent.*  
Bone with bands of incised lines at each end; 67 mm. Found in grave "King's Mound" in Sacramento County. Bought from N. E. Carter, Elkhorn, Wisconsin, 16 Nov. 1926.
683. WHISTLE(?). *North American Indian (Sacramento County, California), 19th cent.*  
3 holes, exact purpose unknown; bone decorated with incised lines; 112 mm. Found in Indian grave in Sacramento County. Bought from N. E. Carter, Elkhorn, Wisconsin, 18 Nov. 1926.

684. WALKING STICK CZAKAN. *J. Merklein, Vienna, c. 1825-47.*

7/1, 4 keys; boxwood with brass keys, ivory rings, and brass ferrule; 840 mm. Gift of Allen Loomis, Elkhart, Indiana, 18 Nov. 1926.

685. FLUTE IN C. *Clinton & Co., London, c. 1863.*

Clinton's Equisant system; ebonite with silver fittings; 654 mm. Bought from J. Clayton Boyes, Bushey, England, 29 Nov. 1926.

686. WHISTLE. *North American Indian (Sacramento County, California), 19th cent.*

Bone; 203 mm. Found in Indian grave in Sacramento County. Bought from N. E. Carter, Elkhorn, Wisconsin, 10 Dec. 1926.

687. VERTICAL WHISTLE FLUTE. *North American Indian (Arapahoe), late 19th cent.*

6/0; cedar stained brown with feathers attached at each end; 690 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 10 Dec. 1926.

688. WHISTLE. *North American Indian (Chippewa), late 19th cent.*

Bone; 194 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 10 Dec. 1926.

689-A. VERTICAL WHISTLE FLUTE. *Spain, early 20th cent.*

5/0 (4 round and 1 rectangular holes); reed cane stained reddish purple; 229 mm. Gift of Carleton Sprague Smith, New York, 18 Dec. 1926.

689-B. VERTICAL WHISTLE FLUTE. *Spain, early 20th cent.*

5/0 (4 round and 1 rectangular holes); reed cane stained reddish purple; 210 mm. Gift of Carleton Sprague Smith, New York, 18 Dec. 1926.

689-C. VERTICAL WHISTLE FLUTE. *Spain, early 20th cent.*

5/0 (round holes); reed cane stained reddish purple; 216 mm. Gift of Carleton Sprague Smith, New York, 18 Dec. 1926.

690-A. VERTICAL WHISTLE FLUTE. *Spain, early 20th cent.*

6/0 (4 round and 2 square holes); reed cane stained reddish purple; 223 mm. Gift of Carleton Sprague Smith, New York, 18 Dec. 1926.

690-B. VERTICAL WHISTLE FLUTE. *Spain, early 20th cent.*

6/0 (4 round and 2 square holes); reed cane stained reddish purple; 218 mm. Gift of Carleton Sprague Smith, New York, 18 Dec. 1926.

690-C. VERTICAL WHISTLE FLUTE. *Spain, early 20th cent.*

6/0 (round holes); reed cane stained reddish purple; 214 mm. Gift of Carleton Sprague Smith, New York, 18 Dec. 1926.

690-D. VERTICAL WHISTLE FLUTE. *Spain, early 20th cent.*

6/0 (4 round and 2 square holes); reed cane stained reddish purple; 224 mm. Gift of Carleton Sprague Smith, New York, 18 Dec. 1926.

690-E. VERTICAL WHISTLE FLUTE. *Spain, early 20th cent.*

6/0 (4 round and 2 square holes); reed cane stained reddish purple; 218 mm. Gift of Carleton Sprague Smith, New York, 18 Dec. 1926.

691-A. VERTICAL WHISTLE FLUTE. *Spain, early 20th cent.*

6/1; reed cane stained purple; 269 mm. Gift of Carleton Sprague Smith, New York, 18 Dec. 1926.

691-B. VERTICAL WHISTLE FLUTE. *Spain, early 20th cent.*

6/1; reed cane stained purple; 258 mm. Gift of Carleton Sprague Smith, New York, 18 Dec. 1926.

692. VERTICAL WHISTLE FLUTE. *Spain, early 20th cent.*

7/1; reed cane stained purple; 335 mm. Gift of Carleton Sprague Smith, New York, 18 Dec. 1926.

693. DOUBLE REED PIPE. *Spain, early 20th cent.*

6/0 (square holes); reed cane stained purple; 255 mm. Gift of Carleton Sprague Smith, New York, 18 Dec. 1926.

694. FIFE. *Ivan O. Hawk, Cleveland, c. 1926.*

Hawk's patent (U.S. Patent No. 1,395,107, Hawk, 1921); longitudinal slit (in place of finger holes) covered with leather strap which, when pressed by a finger at any point, determines the length of the resonating tube, making a portamento possible; nickel-plated brass tube; 402 mm. Gift of Ivan O. Hawk, Cleveland (1926?).

695. FIFE. *Ivan O. Hawk, Cleveland, c. 1926.*

Hawk's patent fife (see No. 694); 454 mm. Gift of Ivan O. Hawk, Cleveland (1926?).

696. FLUTE IN C. *Rudall & Rose, London, c. 1837-47.*

13 keys; foot to B-flat; rosewood with silver tube at embouchure and silver fittings; 746 mm. Bought from William Powell, Birmingham, England, 18 Jan. 1927.

697. FLUTE IN C. *Isaac Willis & Co., London, c. 1824-36.*

8 keys; boxwood with silver fittings; 654 mm. Bought from William Powell, Birmingham, England, 25 Jan. 1927.

698. DOUBLE FLAGEOLET. *Eisenbrant, Baltimore, 1810-57.*

Right tube: 5/0, 4 keys plus shutter; left tube: 7/0, 4 keys plus shutter, ebony with silver keys and ivory rings and beak; 480 mm. Bought from Valentine O. Gorman, New York, 14 Feb. 1927.

699. END-BLOWN FLUTE. *Arabia, early 20th cent.*

9/0; cane with incised lines which are stained red; 674 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

700-A. END-BLOWN FLUTE. *Arabia, early 20th cent.*

8/0; cane with incised lines which are stained red; 620 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

700-B. END-BLOWN FLUTE. *Arabia, early 20th cent.*

8/0; cane with incised lines which are stained red; 615 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

700-C. END-BLOWN FLUTE. *Arabia, early 20th cent.*

8/0; cane with incised lines which are stained red; 528 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

701-A. END-BLOWN FLUTE. *Arabia, early 20th cent.*

7/0; cane with incised lines which are stained red; 605 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

701-B. END-BLOWN FLUTE. *Arabia, early 20th cent.*

7/0; cane with incised lines which are stained red; 593 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

701-C. END-BLOWN FLUTE. *Arabia, early 20th cent.*

7/0; cane with incised lines which are stained red; 513 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

702. END-BLOWN FLUTE. *Arabia, early 20th cent.*

6/0; cane with incised lines which are stained red; 382 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

703. END-BLOWN FLUTE. *Arabia, early 20th cent.*

9/0; cane with incised lines which are stained pink; 640 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

704-A. END-BLOWN FLUTE. *Arabia, early 20th cent.*

8/0; cane with incised lines which are stained pink; 619 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

704-B. END-BLOWN FLUTE. *Arabia, early 20th cent.*

8/0; cane with incised lines which are stained pink; 551 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

705-A. END-BLOWN FLUTE. *Arabia*, early 20th cent.

6/0; cane with incised lines which are stained pink; 470 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

705-B. END-BLOWN FLUTE. *Arabia*, early 20th cent.

6/0; cane with incised lines which are stained pink; 428 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

705-C. END-BLOWN FLUTE. *Arabia*, early 20th cent.

6/0; cane with incised lines which are stained pink; 333 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

705-D. END-BLOWN FLUTE. *Arabia*, early 20th cent.

6/0; cane with incised lines which are stained pink; 323 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

706. VERTICAL WHISTLE FLUTE. *Arabia*, early 20th cent.

6/0; cane with incised lines which are stained red; 317 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

707. END-BLOWN FLUTE. *Arabia*, early 20th cent.

8/0; brass; 395 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

708. END-BLOWN FLUTE. *Arabia*, early 20th cent.

7/2; iron; 296 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

709. REED-BLOWN PIPE(?). *Arabia*, early 20th cent.

6/0; reed-blown pipe with bell of animal horn at lower end; c. 240 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

710. FLUTE IN C. *Clinton & Co.*, London, 1855-71.

Clinton's Equisonant system; cocus with silver fittings; 650 mm. Bought from J. Clayton Boyes, Bushey, England, 18 March 1927.

711. FLUTE IN C. *E. Rittershausen*, Berlin c. 1900.

12 keys plus 6 covered finger holes (special system); foot to B; cocus with silver fittings; 716 mm. "E. Rittershausen/Berlin/Carl Fisher/New-York" stamped on flute. Bought from J. Rieder Pawn Shop, Philadelphia, 20 Apr. 1927.

712. NOTCHED FLUTE. *South American Indian (Peruvian)*, late 19th cent.

6/1; natural bamboo; 505 mm. Gift of William Schade, New York, 25 May 1927.

713. FLUTE IN C. *Bilton*, London, 1840-41.

6 keys; foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 670 mm. Bought from William Powell, Birmingham, England, 2 June 1927.

714. FLUTE IN C. *F. O. Uebel*, Leipzig, c. 1925.

Special system similar to the Schwedler Reform Flute (17 keys—2 perforated); foot to B; grenadilla with silver head and silver fittings; 719 mm. Gift of Louis Rossi, New York, 2 June 1927.

715. FLUTE IN C. *Gino Bartoli*, Milan, c. 1925.

14 keys (old system arranged in style of Boehm system); silver; 673 mm. Bought from Louis Rossi, New York, 2 June 1927.

716. FLUTE IN C. *Firth, Hall & Pond*, New York, 1833-47.

8 keys; boxwood with silver keys and ivory rings; 655 mm. Bought from Baxter-Northrup Co., Los Angeles, 29 July 1927.

717. FLUTE IN C. *Claude Laurent*, Paris, c. 1815.

6 or 8 keys; 2 foot joints (C and D); fluted glass with silver fittings; 667 and 717 mm; illus. (Plates viii, x and xiv) Girard's *La Flûte*, 1953. Bought from N. Grosvenor Norris, Alton, Illinois, 30 July 1927. (See illustration.)

718. FLUTE IN C. *Anon.*, early 19th cent.

6 keys; foot to C<sup>1</sup>; ivory carved all over with gold plated keys, tortoise shell rings,

and horn cap; 668 mm. Bought at Brownsea Castle Sale, No. 1821 (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

719. FLUTE IN C. *Claude Laurent, Paris, 1809.*

3 keys; glass with silver fittings; 629 mm; illus. (Plate x) Girard's *La Flûte*, 1953. Bought at Brownsea Castle Sale, No. 1822 (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

720. ALTO RECORDER IN F. I. *Heytz, Berlin, c. 1724.*

7/1; wood covered with tortoise shell with ivory beak and rings; 510 mm. Bought at Brownsea Castle Sale, No. 1825 (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

721. TRIPLE FLAGEOLET. *Bainbridge, London, c. 1820.*

Right tube: 4 keys plus shutter; middle tube: 5/0, 4 keys plus shutter; left tube: 7/0, 4 keys; boxwood with silver keys and ivory rings, studs, cap, and beak; 620 mm. Bought at Brownsea Castle Sale, No. 1765 (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

722-A. TABOR PIPE. *Anon., early 19th cent.*

2/1; ebony bound with string at top and bottom; 309 mm. Exhibited at the Music Loan Exhibition, London, 1904 (p. 219). Formerly in the T. W. Taphouse Collection and said to have been played in Oxfordshire Morris dances for nearly 40 years by Thomas Humphries (d. 1886). Bought at Brownsea Castle Sale, No. 1777 (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

722-B. TABOR AND STICK. *Anon., early 19th cent.*

Wood rims laced together with white cotton tape; diameter 215 mm. See No. 722-A. Bought at Brownsea Castle Sale, No. 1777 (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

723. TABOR PIPE. *Anon., England(?), early 19th cent.*

2/1; light colored wood; 270 mm. Exhibited at the Music Loan Exhibition, London, 1904 (p. 182). Formerly in the

T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1827b (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

724. BIRD PIPE. *Beckett ("from Wood & Ivy"), London, 1850-73.*

7/1 (thumb hole has been filled); rosewood with ivory beak; 215 mm. Exhibited at the Music Loan Exhibition, London, 1904 (p. 182). Formerly in the T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1897a (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

725. FLUTE IN C (PART ONLY). *Anon., early 19th cent.*

4 keys; white china tube; keys and head missing; 364 mm. Bought at Brownsea Castle Sale, No. 1896a (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

726. WALKING STICK FLUTE IN C. *Staudinger (?), Dresden(?), c. 1820.*

1 key; wood varnished black with brass key, ivory ring, 2 black horn rings, and brass tip; 862 mm. Exhibited at the Music Loan Exhibition, London, 1904 (p. 187). Formerly in the T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1864 (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

727. WALKING STICK CZAKAN. *Anon., early 19th cent.*

7/1, 2 keys; wood with silver keys, horn ferrule and brass ferrule; cane has hammer shaped head; 811 mm. Exhibited at the Music Loan Exhibition, London, 1904 (p. 184). Formerly in the T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1866 (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

728. PITCH PIPE. *Anon., early 19th cent.*

Rectangular shaped mahogany, like an organ pipe, with a plug; produces only one note (A<sup>2</sup>); 178 mm. Exhibited at the Music Loan Exhibition, London, 1904 (p. 181). Formerly in the T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1894d (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

729. PITCH PIPE. *Anon., c. 1820.*

Mahogany; rectangular shaped, like an organ pipe, with a sliding plug; range: marked C—C; actually E—flat<sup>1</sup>—E—flat<sup>2</sup> (A=440); 433 mm. "From Black Bourton Church." Formerly in the T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1894c (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

730. PITCH PIPE. *Anon., early 19th cent.*

Wood; rectangular shaped, like an organ pipe, with a sliding plug; range F<sup>1</sup>—F<sup>2</sup>; 348 mm. Formerly in the T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1894b (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

731. PITCH PIPE. *Anon., early 19th cent.*

Mahogany; tuning slide painted red with lead strip inset for scale; rectangular shaped, like an organ pipe, with a sliding plug; 404 mm. Formerly in the T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1894c (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

732. PITCH PIPE. *Anon., early 19th cent.*

Wood stained brown; range C<sup>1</sup>—C<sup>2</sup>; 390 mm. Bought at Brownsea Castle Sale, No. 1783 (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

733. FLUTE OF BERNOULLI (EXPERIMENTAL ORGAN PIPE OR FLUTE PIPE). *R. Koenig(?)*, *Paris (?)*, *c. 1880.*

Cylindrical rosewood tube with flageolet mouthpiece; upper end is threaded to receive a second section of pipe; this in turn receives a third section, and this a final fourth section which is stopped; used to demonstrate laws of nodes, overtones, etc., of open and stopped pipes by combining in various ways the separate parts; 518 mm. Formerly in the T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1896b (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

734. CROSS FLUTE. *India, late 19th cent.*

5/0; bamboo painted red and yellow; 275 mm. Formerly in the T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1827c (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

735. VERTICAL WHISTLE FLUTE. *Biskra, Algeria, late 19th cent.*

5/0; bamboo with design of incised lines; 298 mm. Formerly in the T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1827a (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

736. END-BLOWN FLUTE. *Madagascar, late 19th cent.*

6/0, membrane hole(?); bamboo with black horn rings and bell; incised pictures of men, animals, and other designs; 365 mm. Formerly in the T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1818d (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

737. END-BLOWN FLUTE. *Nauplia, Greece, late 19th cent.*

6/1; light colored wood; 365 mm. Formerly in the T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1818a (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

738. T'AI P'ING HSIAO (VERTICAL WHISTLE FLUTE). *China, late 19th cent.*

6/0, membrane hole; bamboo; 420 mm. Bought at Brownsea Castle Sale, No. 1818c (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

739. AMMA-NO-FUYE (DOUBLE WHISTLE). *Yokohama, Japan, late 19th cent.*

2 bamboo pipes glued together; 168 mm; said to be used by barbers to call the attention of their customers. Formerly in the T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1893 (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

740. NOSE FLUTE. *Source unknown, late 19th cent.*

4/1; bamboo with holes burned in; 650 mm. Bought at Brownsea Castle Sale, No. 1896c (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

741. CLARINET IN E-FLAT. *Wood & Ivy, London, 1836-47.*

8 keys; boxwood with brass keys, ivory rings, and ebony mouthpiece; 485 mm. Formerly in the T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1818b (C. Van Raalte Collection). Bournemouth, England, 6 Aug. 1927.

742. MUSETTE. *Anon., 19th cent.*

7/1; cocus; 360 mm. Bought at Brownsea Castle Sale, No. 1897b (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

743. TI (CROSS FLUTE). *China, late 19th cent.*

6/0, membrane hole; bamboo stained brown with bone end pieces; 597 mm. Formerly in the T. W. Taphouse Collection. Bought at Brownsea Castle Sale, No. 1820 (C. Van Raalte Collection), Bournemouth, England, 6 Aug. 1927.

744. FLUTE IN C. *I. A. Crone, Amsterdam(?) , early 19th cent.*

10 keys; ivory with silver lip plate and silver fittings; 656 mm. Gift of Howard E. Wurlitzer, Cincinnati, Ohio, 12 Aug. 1927.

745. ALTO RECORDER IN F. *Anon., 18th cent.*

7/1; ivory; 492 mm. Exhibited at the Music Loan Exhibition, London, 1904 (p. 183). Formerly in the T. W. Taphouse Collection. Bought from Harold Reeves, London, 25 Aug. 1927.

746. DOUBLE FLAGEOLET. *Simpson, London, c. 1830-69.*

Right tube: 4/0, 5 keys plus shutter; left tube: 6/0, 5 keys plus shutter; rosewood with silver keys and ivory rings, studs, and beak; 558 mm. Bought from Harold Reeves, London, 25 Aug. 1927.

747. PICCOLO IN C. *Anon., late 19th cent.*

8 keys; foot to C<sup>2</sup>; grenadilla with ivory head and silver fittings; 340 mm. Bought from William Powell, Birmingham, England, 7 Sept. 1927.

748. FLUTE IN C. *Clementi & Co., London, c. 1816.*

8 keys (originally 7, long F has been added); rosewood with silver fittings; 660 mm. Bought from William Powell, Birmingham, England, 7 Sept. 1927.

749. WHISTLE. *Central American Indian, 19th cent.*

Brown pottery; height 45 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 16 Sept. 1927.

750. WHISTLE. *North American Indian (California), 19th cent.*

Eagle bone(?); decorated with incised lines; 120 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 23 Sept. 1927.

751. VERTICAL WHISTLE FLUTE. *North American Indian (Winnebago), late 19th cent.*

6/0; redwood with flue cover carved in the form of a duck; 615 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 23 Sept. 1927.

752. VERTICAL WHISTLE FLUTE. *North American Indian (Sac and Fox), late 19th cent.*

6/0; steel tube with wood flue cover carved in the form of a horse's head; 613 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 23 Sept. 1927.

753. VERTICAL WHISTLE FLUTE. *North American Indian (Sacramento County, California), 19th cent.*

2/0; bone; 188 mm. Found in an Indian grave in Sacramento County. Bought from N. E. Carter, Elkhorn, Wisconsin, 30 Sept. 1927.

754. VERTICAL WHISTLE FLUTE. *North American Indian (Sacramento County, California), 19th cent.*

3/0; bone; 205 mm. Found in an Indian grave in Sacramento County. Bought from N. E. Carter, Elkhorn, Wisconsin, 30 Sept. 1927.



755. VERTICAL WHISTLE FLUTE. *North American Indian (Pawnee), late 19th cent.*

12/0 ("finger holes" are very small and close together); turkey or eagle bone; loop of skin with brown fur attached; 195 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 14 Oct. 1927.

756. DOUBLE FLAGEOLET. *Simpson, London, c. 1830-69.*

Right tube: 4/0, 4 keys plus shutter; left tube: 6/0, 4 keys plus shutter; boxwood with silver keys and ivory rings, studs, and beak; 478 mm. Gift of John T. Shiel, Walkden, England, 17 Oct. 1927.

757. FLUTE IN C. *Anon., mid-19th cent.*

8 keys (left-handed flute); rosewood with ivory head and silver fittings; 663 mm. Bought from Polly Scully, Lowell, Mass., 17 Oct. 1927.

758. VERTICAL WHISTLE FLUTE. *North American Indian (Sioux), late 19th cent.*

5/0; wood stained light yellow with eagle's claw and red feathers attached; red carved turtle with bead eyes on flue cover; leather band covered with beads at lower end; 662 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 10 Dec. 1927.

759. VERTICAL WHISTLE FLUTE. *North American Indian (Sioux), late 19th cent.*

6/0; wood stained red forming into fish's head (stained green) at lower end with red feathers attached; 857 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 16 Dec. 1927. (See illustration).

760. FLUTE IN A-FLAT. *C. G. Conn, Elkhart, Indiana, c. 1925.*

2 keys (D-sharp and long F); 2 joints; bakelite with silver fittings; 402 mm. Loomis: "This is the first flute ever made of molded Bakelite. Only the holes for the key-posts were drilled." Gift of Allen Loomis, Elkhart, Indiana, 23 Dec. 1927.

761. FLUTE IN F. *Heyl, Frankfurt, c. 1839.*

7 keys (7th key for high E?); boxwood with silver keys and ivory rings; 495 mm.

Gift of L. Chester Smith, San Francisco, 2 Jan. 1928.

762. WHISTLE. *Central American Indian, 19th Cent.*

Natural or artificial stone; 125 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 11 Jan. 1928.

763. PICCOLO IN D-FLAT. *Anon., Japan(?), early 20th cent.*

8/2 (one twin hole); metal; 320 mm. Gift of Isamu Hirabayashi, Tokyo, 17 Jan. 1928.

764. VERTICAL WHISTLE FLUTE. *Japan, early 20th cent.*

4/0; bamboo stained brown on outside and red on inside; 289 mm. Gift of Isamu Hirabayashi, Tokyo, 17 Jan. 1928.

765. WHISTLE. *North American Indian, late 19th cent.*

Clay in the form of a fish; 78 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 25 Jan. 1928.

766. FLUTE IN C. *Anon., mid-19th cent.*

1 key; rosewood with silver fittings; 603 mm. Gift of W. C. McQuillen, Los Angeles, 4 Feb. 1928.

767. FLUTE IN C. *H. Grenser, Dresden, and Tuerlinckx, Malines, late 18th cent.*

4 keys; ebony with silver keys and ivory rings; 626 mm. Head is marked: "Tuerlinckx/Malines"; upper body not marked but probably Tuerlinckx; lower body and foot marked: "H. Grenser/Dresden." Gift of W. C. McQuillen, Los Angeles, 4 Feb. 1928.

768. FLUTE IN C. *Rudall, Carte & Co., London, 1886.*

Rockstro's model with perforated keys; ebonite with silver fittings; 671 mm. Bought from William H. Guyon, Butte, Montana, 7 Feb. 1928.

769. PICCOLO IN D-FLAT. *Euler, Frankfurt, c. 1818-40.*

6 keys; grenadilla with ivory head and silver fittings; 294 mm. Bought from William R. Gibbs, Boston, 3 March 1928.

770. PICCOLO IN D-FLAT. *Anon., mid-19th cent.*

6 keys; cocus with ivory head and silver fittings; 291 mm. Gift of Edward Lippé, Philadelphia, 10 March 1928.

771. FLUTE IN C. *Th. Boehm, Munich, 1847-62.*

Boehm system, Dorus G-sharp; cocus(?) with silver lip plate and silver fittings; 669 mm. Bought from Percy W. Treat, California, 13 March 1928.

772. FLUTE IN C. *Claude Laurent, Paris, 1816.*

5 keys; fluted glass with silver fittings; 624 mm; illus. (Plate x) Girard's *La Flûte*, 1953. Bought from Rudall, Carte & Co., London, 14 Apr. 1928.

773. WHISTLE. *North American Indian (Northern Cheyenne), late 19th cent.*

Bone covered all over with yellow, red, green, and blue beads; beaded neck strap; 213 mm. Bought from Albert G. Heath, Chicago, 14 Apr. 1928.

774. WHISTLE. *North American Indian (Blackfoot, Montana), late 19th cent.*

Wood stained yellow and red; 210 mm. Bought from Albert G. Heath, Chicago, 14 Apr. 1928. (See illustration.)

775. WHISTLE. *North American Indian (Yurok, Lake County, California), 19th cent.*

Bone with short incised lines; 245 mm. Found in an Indian grave in Lake County. Bought from Albert G. Heath, Chicago, 14 Apr. 1928.

776. VERTICAL WHISTLE FLUTE. *North American Indian (Yurok, Lake County, California), 19th cent.*

3/0; bone; 250 mm. Found in an Indian grave in Lake County. Bought from Albert G. Heath, Chicago, 14 Apr. 1928.

777. VERTICAL WHISTLE FLUTE. *North American Indian (Southern Arapahoe, Oklahoma), late 19th cent.*

6/0; redwood(?) with flue cover in form of bird's head (painted blue, red, and green); 542 mm. Bought from Albert G. Heath, Chicago, 14 Apr. 1928.

778. FLUTE IN C. *Emilio Piana, Florence, c. 1875.*

Briccialdi system; 2 joints; silver; 664 mm. Flute is marked "Brizzi e Niccolai/Firenze/E. Piana Fabb<sup>te</sup>." Bought from Pablo Colón, New York, 2 May 1928.

779. PICCOLO IN C. *Euler, Frankfurt, c. 1818-40.*

6 keys; rosewood with silver fittings; 315 mm. Bought from William R. Gibbs, Boston, 2 May 1928.

780. FLUTE IN C. *William Hall & Son, New York, 1848-75.*

8 keys; rosewood with silver lip plate and silver fittings; 658 mm. Bought from Baxter-Northup Co., Los Angeles, 2 May 1928.

781. FLUTE IN C. *William Henry Potter, London, 1809-17.*

7 keys; foot to C<sup>1</sup>; ebony with silver keys and ivory rings; 672 mm. Bought from William Powell, Birmingham, England, 5 May 1928.

782. FLUTE IN C. *Th. Boehm, Munich, 1851.*

Boehm system, open G-sharp; silver with gold lip plate; 624 mm. Boehm's No. 57. DCM: "This flute has been altogether rebuilt as to key mechanism. Evidently was originally very like No. 21 [DCM No. 653], with rods on both outer and inner side of body. D-sharp low, thumb key, and two trill key holes have been moved. Key-cups for G-sharp and A keys are the only original ones left. . . ." Bought from Rudall, Carte & Co., London, 5 May 1928.

783. FRENCH FLAGEOLET. *Anon., early 19th cent.*

4/2; wood with ivory rings and beak; 354 mm. Formerly in the de Léry Collection. Bought from Harold Reeves, London, 8 May 1928.

784. SCHALMEI (DOUBLE-REED PIPE). *Source unknown.*

6/1(?); brown colored wood; 350 mm. Formerly in the de Léry Collection. Bought from Harold Reeves, London, 8 May 1928.

785. M U S E T T E. *Provence(?)*, 19th cent.

6/1; ivory; 348 mm. Formerly in the de Léry Collection. Bought from Harold Reeves, London, 8 May 1928.

786. T A B O R S T I C K. *France(?)*, 19th cent.

Reddish wood with ivory tip and rings; pearl inlaid at end; 380 mm. Bought from Harold Reeves, London, 8 May 1928.

787. G A L O U B E T. *Long, La Ciotat, Provence, c. 1780.*

2/1; ivory; 312 mm. Bought from Harold Reeves, London, 8 May 1928.

788. V E R T I C A L W H I S T L E F L U T E. *North American Indian (Northern Cheyenne)*, late 19th cent.

6/0; wood stained red forming into bird's head at lower end; 710 mm. Bought from Albert G. Heath, Chicago, 11 May 1928.

789. P I C C O L O I N C. *W. Liebel, Dresden, mid-19th cent.*

6 keys; ebony with silver fittings; 322 mm. Bought from William R. Gibbs, Boston, 16 May 1928.

790. V E R T I C A L W H I S T L E F L U T E. *North American Indian (Shoshone)*, late 19th cent.

6/0; bamboo with flue cover carved in shape of bird(?) tied on with thong; 534 mm. Bought from Albert G. Heath, Chicago, 16 May 1928.

791. V E R T I C A L W H I S T L E F L U T E. *North American Indian (Mandan)*, late 19th cent.

6 (one plugged)/0; wood encased in a tightly stretched piece of the intestine of a buffalo; bear-shaped flue cover; 629 mm. Bought from Albert G. Heath, Chicago, 16 May 1928.

792. W H I S T L E. *North American Indian (Moki)*, late 19th cent.

Bone painted red with black decoration; 209 mm. Bought from Albert G. Heath, Chicago, 16 May 1928.

793. W H I S T L E. *North American Indian (Lake Co., California)*, 19th cent.

Bone with incised lines; 109 mm. Found in an Indian grave in Lake County. Gift of Albert G. Heath, Chicago, 16 May 1928.

794. T A K E - B U E O R S H I - N O - B U E (CROSS FLUTE). *Japan, early 20th cent.*

7/0; bamboo lacquered black outside and red inside with 12 wrappings (lacquered red); 427 mm. Bought from Isamu Hirabayashi, Tokyo, 16 June 1928.

795. T A K E - B U E O R S H I - N O - B U E (CROSS FLUTE). *Japan, early 20th cent.*

6/0; bamboo lacquered red inside; black bands and 12 windings lacquered black; 397 mm. Bought from Isamu Hirabayashi, Tokyo, 16 June 1928.

796. T A K E - B U E O R S H I - N O - B U E (CROSS FLUTE). *Japan, early 20th cent.*

6/0; bamboo lacquered red on inside with horn ring and cap; 418 mm. Bought from Isamu Hirabayashi, Tokyo, 16 June 1928.

797. E N D - B L O W N F L U T E. *Arabia, early 20th cent.*

6/1; bamboo; 365 mm. Gift of Carleton Sprague Smith, New York, 2 March 1927.

798. F L U T E I N C. *C. Peloubet, New York, 1829-35.*

6 keys; boxwood with brass keys and ivory rings; 609 mm. Bought from Elizabeth B. Ripley, Malden, Massachusetts, 31 July 1928.

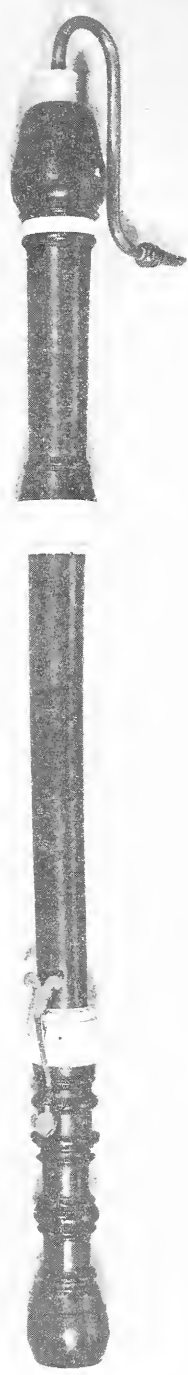
799. P I C C O L O I N C (PART ONLY). *C. Lange, St. Petersburg, 1875.*

6 keys; head missing; grenadilla with silver fittings; 203 mm (body only). Bought from Edward Lippé(?), place and date unknown.

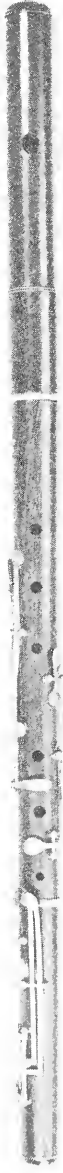
800. B A S S R E C O R D E R I N F. *Rippert, Paris, late 17th cent.*

1 key (double touch); wood stained dark red brown with ivory rings and brass crook; 1130 mm. Bought from Henning Oppermann, Basel, 7 Aug. 1928. (See illustration.)

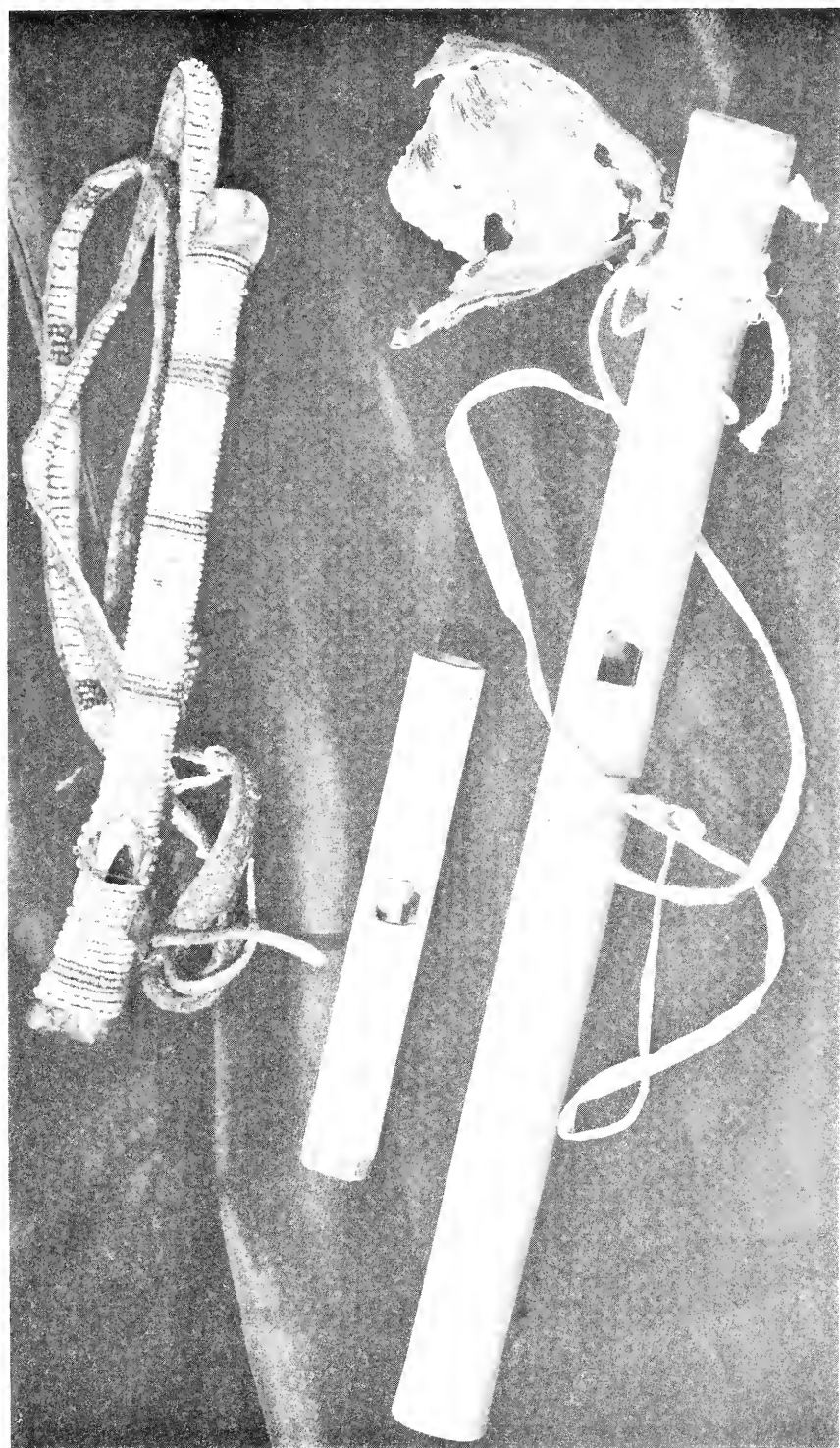
801. FLUTE IN C. *Schlegel, Basel, c. 1780-92.*  
1 key; 3 upper body joints; boxwood with silver key and ivory rings; 621, 630, and 637 mm. Bought from Henning Oppermann, Basel, 7 Aug. 1928.
802. FLUTE IN C. *Felchlin, Berne, c. 1824-57.*  
1 key; 3 upper body joints; curly boxwood(?) with silver key and ivory rings; 623, 632, and 640 mm. Bought from Henning Oppermann, Basel, 7 Aug. 1928.
803. PICCOLO IN D-FLAT. *Felchlin, Berne, c. 1824-51.*  
1 key; boxwood with silver key and ivory rings; 305 mm. Bought from Henning Oppermann, Basel, 7 Aug. 1928.
804. FLUTE IN C. *M. Lot, St. Germain, Paris, c. 1775-1783.*  
1 key; boxwood with brass key and horn ring; 618 mm. Bought from Henning Oppermann, Basel, 7 Aug. 1928.
805. WALKING STICK FLUTE. *Anon., early 19th cent.*  
1 key; plum wood(?) with brass key, ivory rings, and iron tip covered with brass; 940 mm. Bought from Henning Oppermann, Basel, 7 Aug. 1928.
806. VERTICAL WHISTLE FLUTE. *Anon., Switzerland, 19th cent.*  
6/0; pear wood; 306 mm. Bought from Henning Oppermann, Basel, 7 Aug. 1928.
807. PITCH PIPE. "H-L," *place unknown, early 19th cent.*  
Boxwood with horn ring and cap; range C<sup>2</sup>-C<sup>3</sup>; 249 mm. Bought from Henning Oppermann, Basel, 7 Aug. 1928.
808. FIFE. *Anon., Switzerland, late 19th cent.*  
"Appenzeller Landsgemeindepfeffen"; boxwood with brass ferrules; 319 mm. Bought from Henning Oppermann, Basel, 7 Aug. 1928.
809. PICCOLO IN(?). *C. Mahillon, Brussels, mid-19th cent.*  
5 keys; rosewood or cocus with silver fittings; 309 mm. Bought from Henning Oppermann, Basel, 7 Aug. 1928.
810. FLUTE IN C. *Schlegel, Basel, c. 1780-92.*  
1 key; boxwood with silver key and ivory rings; 619 mm; finger holes are not in straight line—slanted outward for left hand and inward for right hand. Bought from Henning Oppermann, Basel, 7 Aug. 1928.
811. VERTICAL WHISTLE FLUTE. *North American Indian (Winnebago), late 19th cent.*  
6/0; red cedar bound with 12 wire bands; 540 mm. Bought from H. H. Bennett Studio, Kilbourn, Wisconsin, 25 Sept. 1928.
812. PITCH PIPE. *Anon., early 19th cent.*  
Pitch pipe has two tuning slides—one inside the other; wood with ivory rings; range small A—G<sup>2</sup>(?); 327 mm. Bought from J. George Morley, London, 20 Oct. 1928.
813. FLAGEOLET. *Harry Bernard, Chambersburg, Pennsylvania, 1921.*  
5/0; with semitone lever (U.S. Patent No. 845,998, Bernard, 1907); metal (semitone lever is painted red); 322 mm; described and illustrated in *Popular Mechanics*, Dec., 1921, p. 842. Gift of Harry Bernard, Chambersburg, Pennsylvania, 1921.
814. OCARINA. *Harry Bernard, Chambersburg, Pennsylvania, c. 1910.*  
4/0, keys, 1 slide for changing pitch a semitone; metal painted red; 210 mm. Gift of Harry Bernard, Chambersburg, Pennsylvania, 1921.
815. OCARINA. *Harry Bernard, Chambersburg, Pennsylvania, c. 1910.*  
6/0, hole above flue for changing pitch a semitone; aluminum; 195 mm. Gift of Harry Bernard, Chambersburg, Pennsylvania, 2 June 1923.
816. PANPIPES. "Wowie Patented," *United States, c. 1928.*  
8 pipes; wax; range A-flat<sup>3</sup>(?); 81 mm. Gift of Carroll E. Cambena, Los Angeles, 1928.



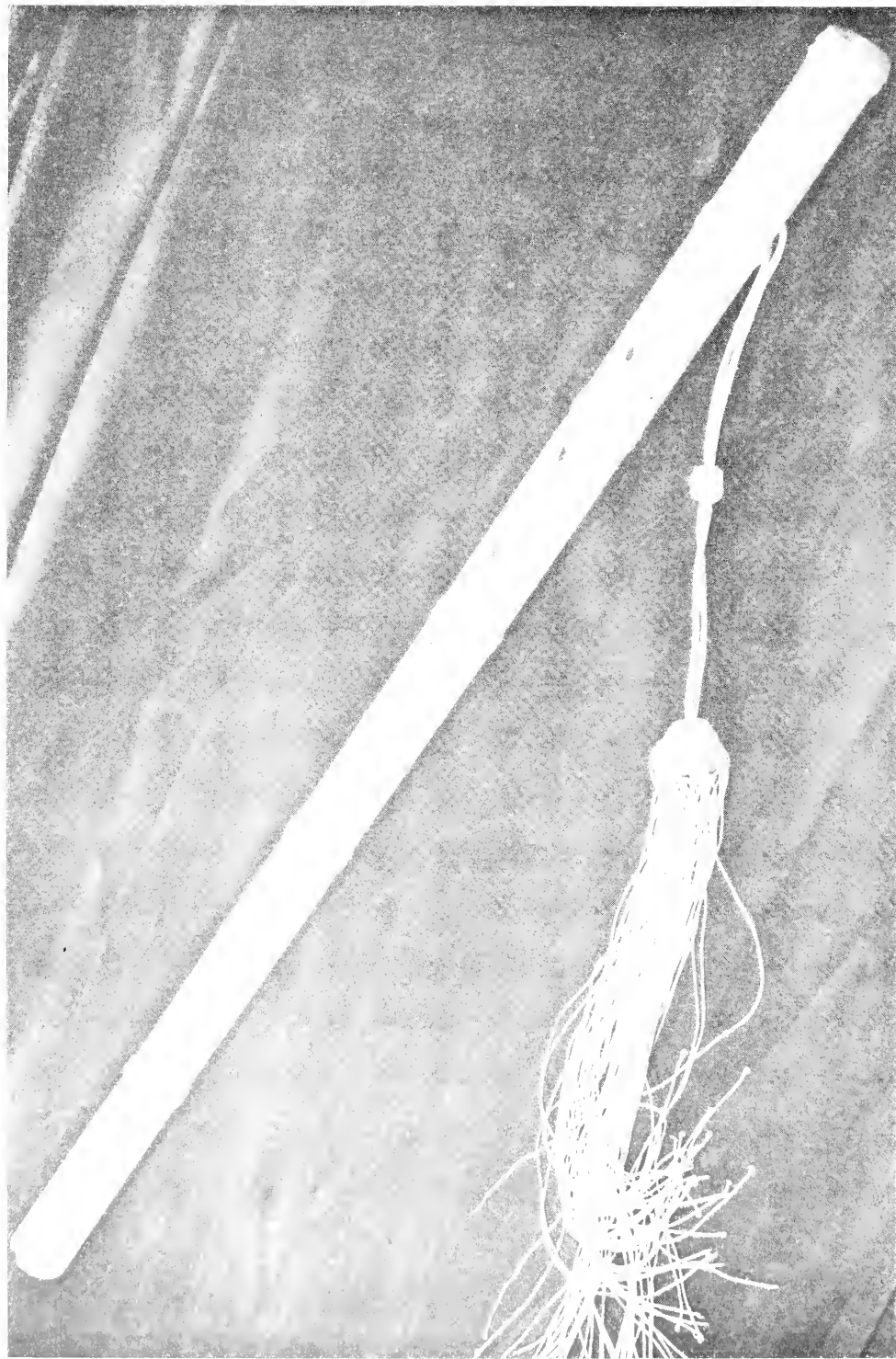
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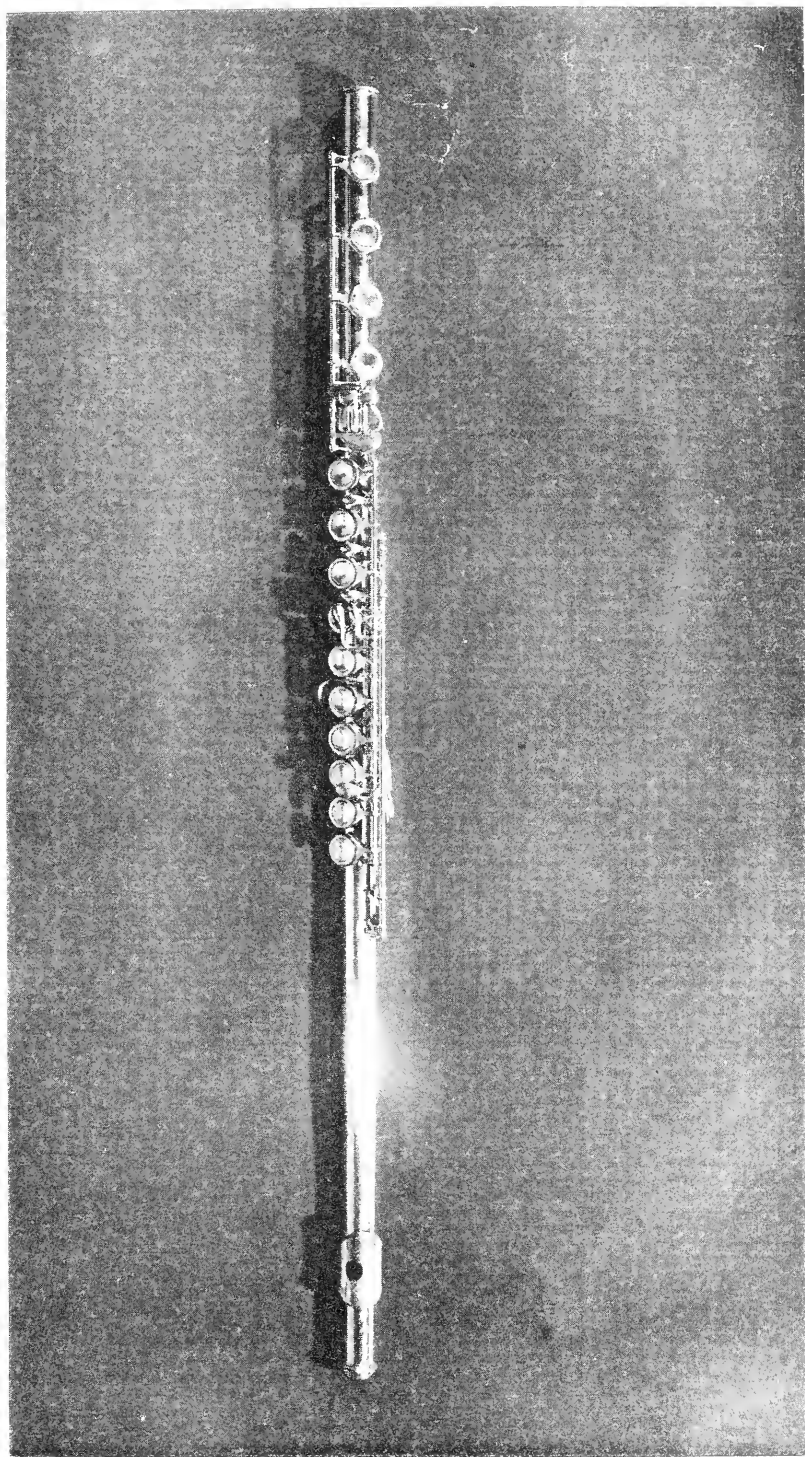


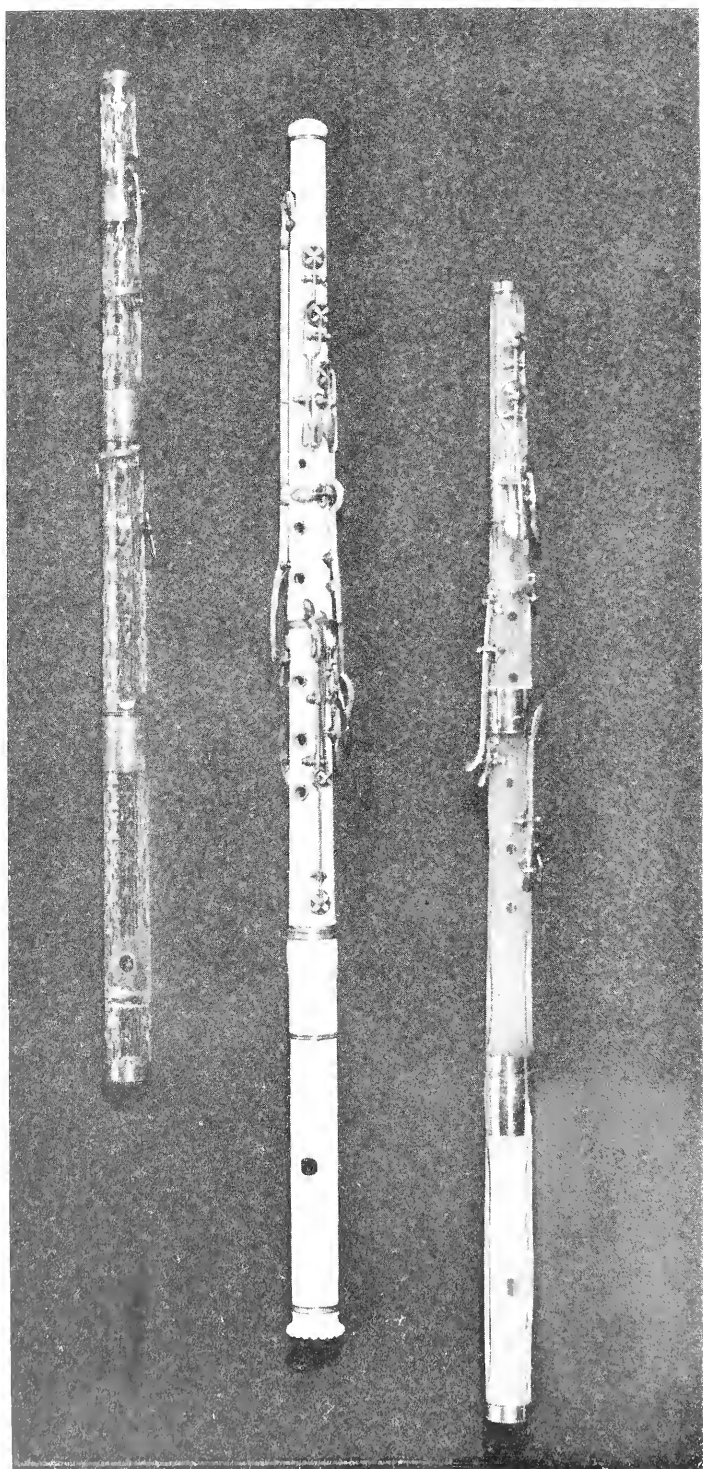




Nos. (left to right, top to bottom) 1027, 759, 1383, 1113, 1120.







Nos. (top to bottom) 378, 307, 717.

817. FLUTE IN C. *Anon., early 19th cent.*  
8 keys; rosewood with silver fittings; 680 mm. Bought from G. A. Rose, London, 14 Nov. 1928.
818. FLUTE IN C. *L. Vanotti, Milan, c. 1928.*  
Boehm system, closed G-sharp; silver; 671 mm. Bought from Louis Rossi, New York, 28 Nov. 1928.
819. FLUTE IN E-FLAT. *Widmann, Freiburg, c. 1855.*  
5 keys; boxwood with brass keys and ivory rings; 515 mm. Bought from Henning Oppermann, Basel, 28 Nov. 1928.
820. FLAGEOLET-FLUTE. *Bainbridge, London, c. 1810.*  
4 keys; boxwood with silver keys and ivory rings, lip and beak; 617 mm; transverse flute with flageolet mouthpiece. Bought from W. Howard Head, London, 7 Dec. 1928.
821. FLUTE IN C. *A. E. Fischer, Bremen, c. 1920.*  
17 keys, 3 rings (similar to the Reform Flute); foot to B; grenadilla with silver head and silver fittings; 738 mm. Bought from W. Valderpoort, Rotterdam, 14 Dec. 1928.
822. FLUTE IN C. *William Henry Potter, London, 1809-17.*  
8 keys; ebony with silver keys and ivory rings; 673 mm. Bought from J. Clayton Boyes, Bushey, England, 14 Dec. 1928.
823. FLUTE IN C. *Thibouville Frères, "La Couture," c. 1857-75.*  
4 keys; grenadilla with silver fittings; 616 mm. Bought from Baxter-Northup Co., Los Angeles, 15 Dec. 1928.
824. WALKING STICK FLAGEOLET. *Anon., early 19th cent.*  
7/1, 4 keys; wood decorated with wavy burned-in streaks; brass ferrule with iron tip; 875 mm (without handle). Bequest of Carolyn A. Alchin, Los Angeles, 15 Dec. 1928.
825. FLUTE IN G. *Rudall & Rose, London, c. 1830.*  
8 keys; rosewood with silver keys and silver and horn rings; 820 mm. Bought from G. A. Rose, London, 24 Dec. 1928.
826. FLUTE IN G. *Clementi & Co., London, c. 1826.*  
7 keys ("C. Nicholson's Improved"); foot to G; ebony(?) with silver fittings; 819 mm. Bought from G. A. Rose, London, 24 Dec. 1928.
827. FLUTE IN C. *L. Drouet, London, c. 1818.*  
8 keys (high C with extension slide—purpose unknown); rosewood with silver lip plate and silver fittings; 665 mm. Bought from William Powell, Birmingham, England, 5 Jan. 1929.
828. FLUTE IN C. *Badger & Monzani, New York, 1858-59.*  
Boehm system, Dorus G-sharp; flute originally had 5 perforated keys; foot to B; ebonite with silver lip plate and silver fittings; 717 mm. Gift of Clayton Lindsay, Washington, 22 Jan. 1929.
829. FLUTE IN C. *Milot, place unknown, late 18th cent.*  
1 key; 3 upper body joints; pear wood(?) with brass key and ivory rings; 621, 631, and 641 mm. Bought from Allen Loomis, Elkhart, Indiana, 26 Jan. 1929.
830. FLUTE IN C. *H. Kayser, Hamburg, c. 1835.*  
12 keys; foot to B; cocus with silver lip plate and silver fittings; 707 mm. Bought from Allen Loomis, Elkhart, Indiana, 26 Jan. 1929.
831. FLUTE IN C. *Goulding, D'Almaine, Potter & Co., London, 1811-23.*  
6 keys; foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 663 mm. Bought from 1st National Bank, Oil City, Pennsylvania, 15 Feb. 1929.
832. VERTICAL WHISTLE FLUTE. *Anon., Sicily, 1894.*  
6/2; bone decorated with incised dots and lines, crucifix, woman, heart, "1894,"

and "Pietro Padalino"; 200 mm. Gift of Mrs. William Sloane, Norfolk, Virginia, 18 Feb. 1929.

833. FLUTE IN C. *Rudall, Carte & Co., London, 1892.*

Boehm system, closed G-sharp, extra D-sharp key which is closed with low D key (left-handed flute); cocus with silver fittings; 659 mm. Bought from Wilfrid T. Boulger, Lowell, Mass., 2 March 1929.

834. ALTO RECORDER IN D. *P. Bressan, London, early 18th cent.*

7/1; wood (2 types) with ivory ring on head; head only by Bressan; body and foot of different wood; 575 mm. Bought from Henning Oppermann, Basel, 4 March 1929.

835. ALTO RECORDER IN F. *Anon., early 18th cent.*

7/1; pear wood (?) stained brown; 485 mm. Bought from Henning Oppermann, Basel, 4 March 1929.

836. FLUTE IN E-FLAT. *Wm. S. Haynes, Boston, 1896.*

Boehm system, closed G-sharp; 2 joints; silver plated; 572 mm. Bought from Otto Krueger, Detroit, 16 March 1929.

837. FLUTE IN C. *Rönnberg, New York, 1856-90.*

Boehm system, Dorus G-sharp; foot to B; curly wood (?) with silver fittings; 705 mm. Bought from Carl Fischer, New York, 27 March 1929.

838. VERTICAL WHISTLE FLUTE. *North American Indian (Winnebago), late 19th cent.*

6/0; bamboo with wood flue cover tied on with thong; 540 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 30 March 1929.

839. VERTICAL WHISTLE FLUTE. *North American Indian (Winnebago), late 19th cent.*

6/0; cedar stained darkbrown; dog carved on wood flue cover; 560 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 30 March 1929.

840. VERTICAL WHISTLE. *North American Indian (Winnebago), late 19th cent.*

Bamboo with piece of quill bound over holes to form windway; 419 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 30 March 1929.

841. WALKING STICK FLUTE. *Anon., 1851.*

4 keys (F key for right thumb); light colored wood with mottled stain or burn, keys of same wood; ivory knob; 895 mm. Bought from G. L. Tilden, Northboro, Mass., 5 Apr. 1929.

842. VERTICAL WHISTLE FLUTE. *North American Indian (Winnebago), late 19th cent.*

6/0; wood stained light green and bound with 8 windings of wire; 573 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 6 Apr. 1929.

843. WHISTLE. *North American Indian (Sacramento County, California), 19th cent.*

Bone; 250 mm. Found in Indian grave in Sacramento County. Bought from N. E. Carter, Elkhorn, Wisconsin, 6 Apr. 1929.

844. WHISTLE. *North American Indian (Winnebago, Wisconsin), late 19th cent.*

Eagle (?) bone with incised designs (sun, star, and crescent); 195 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 6 Apr. 1929.

845. VERTICAL WHISTLE FLUTE. *North American Indian (Potawatomi), late 19th cent.*

6/0; gun barrel with wood flue cover; 475 mm. Bought from Albert G. Heath, Chicago, 15 Apr. 1929.

846. VERTICAL WHISTLE FLUTE. *North American Indian (Umatilla), late 19th cent.*

5/0; wood painted black with lower end forming effigy of a deer's head (?); 630 mm. Bought from Albert G. Heath, Chicago, 15 Apr. 1929.

847. VERTICAL WHISTLE FLUTE. *North American Indian (Winnebago), late 19th cent.*  
6/0; wood with lead inlay; 644 mm. Bought from Albert G. Heath, Chicago, 15 Apr. 1929.
848. VERTICAL WHISTLE FLUTE. *North American Indian (Blackfoot), late 19th cent.*  
6/0; red cedar with 8 wrappings of thong; wood flue cover in shape of bear; 613 mm. Bought from Albert G. Heath, Chicago, 15 Apr. 1929.
849. FLUTE IN C. *Firth, Hall and Pond, New York, 1833-47.*  
6 keys; rosewood with silver keys and ivory rings; barrel covered with silver tube; 602 mm. Gift of Horace T. Dyer, Cos Cob, Connecticut, 24 Apr. 1929.
850. FLUTE IN C. *Claude Laurent, Paris, 1811.*  
6 keys; glass with silver fittings; 622 mm. Bought from Sumner Healey, New York, 26 Apr. 1929.
851. FLUTE IN C. *Carlo, Palanka, now in Yugoslavia, c. 1775.*  
1 key; 5 upper body joints; boxwood(?) with silver key; 580-619 mm; illus. (Plate viii) Girard's *La Flûte*, 1953. Bought from John T. Shiel, Walkden, England, 3 May 1929.
852. FLUTE IN G. *Pearson, London, c. 1860.*  
8 keys (Nicholson holes); satinwood with silver keys and ivory rings; 655 mm. Bought from John T. Shiel, Walkden, England, 3 May 1929.
853. FLUTE IN C. *William Henry Potter, London, 1809-17.*  
6 keys; foot to C<sup>1</sup>; ebony with silver keys and ivory rings; 672 mm. Bought from John T. Shiel, Walkden, England, 3 May 1929.
854. FLUTE IN C. *Monzani & Co., London, 1820-29.*  
9 keys; 2 head joints; rosewood with silver fittings; 675 and 680 mm. Bought from John T. Shiel, Walkden, England, 3 May 1929.
855. FLUTE IN C. *Monzani & Co., London, 1808-29.*  
9 keys; ebony with silver fittings; 677 mm. Bought from John T. Shiel, Walkden, England, 3 May 1929.
856. FIFE IN B-FLAT. *T. Prowse, London, 1816-36.*  
4 keys; pearwood with brass keys; 392 mm. "J. Lock" stamped on head. Bought from John T. Shiel, Walkden, England, 3 May 1929.
857. PANPIPES. *Source unknown.*  
26 pipes; range B<sup>1</sup>-F<sup>6</sup>; bamboo; 178-56 mm. Bought from John T. Shiel, Walkden, England, 3 May 1929.
858. VERTICAL WHISTLE FLUTE. *North American Indian (Chippewa), late 19th cent.*  
6/0; natural wood with flue cover tied on with thong; 400 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 6 May 1929.
859. FLUTE IN G(?). *Blume, London, early 19th cent.*  
6 keys; foot to G<sup>1</sup>; ebony with rosewood head and barrel, silver keys, and ivory rings; 675 mm. Gift of Ada Brathwaite, Melbourne, Australia, 16 May 1929.
860. BASS RECORDER IN A(?). *Anon, 18th cent.*  
7/1, 1 key with double touch; wood with brass key and brass and ivory rings; 815 mm. Bought from G. H. F. Hanken, Rotterdam, 16 May 1929.
861. WHISTLE. *Central America Indian (Aztec, Nahua), 19th cent.(?).*  
Terra cotta; height 56 mm. Found in San Miguel Amantha, Mexico, 1½ meters below the surface. Bought from William Niven, Tampico, Mexico, 20 May 1929.
862. WHISTLE. *Central American Indian (Totonac), 19th cent.*  
Terra cotta; 112 mm. Found in Tempoal, Vera Cruz, 3 meters below the surface. Bought from William Niven, Tampico, Mexico, 20 May 1929.

863. WHISTLE. *Central American Indian (Totonac), 19th cent.*  
Terracotta; height 77 mm. Found in Panuco, Vera Cruz, 3 meters below the surface. Bought from William Niven, Tampico, Mexico, 20 May 1929.
864. WHISTLE. *Central American Indian (Totonac), 19th cent.*  
Terra cotta; 81 mm. Found in Panuco, Vera Cruz, 3 meters below the surface. Bought from William Niven, Tampico, Mexico, 20 May 1929.
865. WHISTLE. *Central American Indian (Totonac), 19th cent.*  
Terra cotta; 60 mm. Found in Panuco, Vera Cruz, 3 meters below the surface. Bought from William Niven, Tampico, Mexico, 20 May 1929.
866. WHISTLE. *Central American Indian (Totonac), 19th cent.*  
0/1(?); terra cotta; 78 mm. Found in Panuco, Vera Cruz, 3 meters below the surface. Bought from William Niven, Tampico, Mexico, 20 May 1929.
867. WHISTLE. *Central American Indian (Totonac), 19th cent.*  
1/0; sounds E<sup>4</sup> and G<sup>4</sup>; terra cotta; 45 mm. Found in Panuco, Vera Cruz, 3 meters below the surface. Bought from William Niven, Tampico, Mexico, 20 May 1929.
868. WHISTLE. *Central American Indian (Totonac), 19th cent.*  
2/0; sounds E<sup>3</sup> and F<sup>3</sup>; terra cotta; height 72 mm. Found in Panuco, Vera Cruz, 3 meters below the surface. Bought from William Niven, Tampico, Mexico, 20 May 1929.
869. FIFE IN B-FLAT. *Jacob Streulli, Horgen, Switzerland, c. 1850.*  
Curly yellow wood with brass ferrules; 365 mm. Bought from Henning Oppermann, Basel, 4 June 1929.
870. FLUTE IN G. *Du Mont, Paris, c. 1692.*  
1 key; boxwood with brass key and ivory rings; 735 mm. Bought from G. Hanken & Zoon, Rotterdam, 12 June 1929.
871. ALTO RECORDER IN F. *E. Terton, place unknown, early 18th cent.*  
Boxwood with ivory rings and beak; 448 mm. Bought from G. Hanken & Zoon, Rotterdam, 12 June 1929.
872. FLUTE IN C. *Anon., early 19th cent.*  
10 keys; ebony with silver fittings and pearl inset at embouchure and finger holes; 663 mm. Bought from Sigmund Koch, Munich, 23 July 1929.
873. FLUTE IN C. *Freyer & Martin, Potsdam, early 19th cent.*  
6 keys; 3 upper body joints; pear wood(?) with silver keys and ivory rings; 616, 625, and 633 mm. Bought from Sigmund Koch, Munich, 23 July 1929.
874. FLUTE IN C. *Herold, Wurzburg, c. 1860.*  
Boehm system, open G-sharp; boxwood with silver fittings; 658 mm. Bought from Sigmund Koch, Munich, 23 July 1929.
875. FLUTE IN C. *Th. Boehm, Munich, 1847-62.*  
Boehm system, open G-sharp; grenadilla with silver fittings; 659 mm. Bought from Sigmund Koch, Munich, 23 July 1929.
876. VERTICAL WHISTLE FLUTE. *North American Indian (Sioux), late 19th cent.*  
5/0; carved light wood forms into bird's(?) head at lower end; feathers glued on; 865 mm. Bought from Smith & Chandler, West Yellowstone, Montana, 3 Aug. 1929.
877. FLUTE IN C. *Longhurst, New York, c. 1850.*  
9 keys; rosewood with silver fittings; 672 mm. Bought from Pierce's Old Book Store, Berkeley, California, 12 Aug. 1929.
878. FLUTE IN C. *T. P. Monzani, New York, 1843-49.*  
8 keys; rosewood with silver fittings (barrel covered with silver tube); 560 mm. Head is marked "T. P. Monzani/New-York/931/George P. Reed/Boston." Gift of M. Earl, Oakland, California, 19 Aug. 1929.



879. TAKE-BUE OR SHI-NO-BUE (CROSS FLUTE). *Japan, early 20th cent.*

7/0; bamboo speckled brown and lacquered red on inside; 530 mm. Instrument has a very large embouchure (13 x 15 mm). Bought from Aoki-Taiseido Book Co., San Francisco, 22 Aug. 1929.

880. T'AI P'ING HSIAO (VERTICAL WHISTLE FLUTE). *Chinatown, San Francisco, early 20th cent.*

6/0, membrane hole; bamboo painted black with ivory or bone tips; 388 mm. Bought in Chinatown (about 941 Grant Avenue), San Francisco, 23 Aug. 1929.

881. KUAN TZU (DOUBLE REED PIPE). *Chinatown, San Francisco, early 20th cent.*

7/1; bamboo stained black with silver ferrules; incised decorations and characters; 209 mm. Bought in Chinatown (about 941 Grant Avenue), San Francisco, 23 Aug. 1929.

882. VERTICAL WHISTLE FLUTE. *Calura, Germany, 1929.*

6/0; tin varnished black with gilt design; 350 mm. Bought from music store on Market Street, San Francisco, 23 Aug. 1929.

883. OCARINA. *H. Fiehn, Vienna, 1925.*

8/2; lowest pitch C-sharp<sup>2</sup>; black clay with gilt markings; 88 mm. Bought from music store on Market Street, San Francisco, 23 Aug. 1929.

884. OCARINA. *H. Fiehn, Vienna, 1925.*

8/2; lowest pitch B-flat<sup>1</sup>(?); black clay with gilt markings; 161 mm. Bought from music store on Market Street, San Francisco, 23 Aug. 1929.

885. FLUTE IN C. *C. Mahillon, Brussels, c. 1880.*

Boehm system, closed G-sharp, extra low C-sharp lever for left hand; cocus with silver fittings; 665 mm. Bought from Baxter-Northup Co., Los Angeles, 27 Aug. 1929.

886. VERTICAL WHISTLE FLUTE. *North American Indian (Jicarilla Apache, near Santa Fe), late 19th cent.*

4/0; light colored wood with carved flue cover; 415 mm. Bought from(?), Pasadena, California, 28 Aug. 1929.

887. PANPIPES. *South American Indian (Aymaras, La Paz, Bolivia), late 19th cent.*

6 pipes; bamboo bound with 2 bands of split bamboo; range(?)—B<sup>1</sup>; 483—187 mm. Bought from Whalen's Curio Store, Los Angeles, 30 Aug. 1929.

888. PANPIPES. *South American Indian (Aymaras, La Paz, Bolivia), late 19th cent.*

7 pipes; bamboo bound with 2 bands of split bamboo; 544—163 mm. Bought from Whalen's Curio Store, Los Angeles, 30 Aug. 1929.

889. VERTICAL WHISTLE FLUTE. *South American Indian (Aymaras, La Paz, Bolivia), late 19th cent.*

5/0; bamboo; 471 mm. Bought from Whalen's Curio Store, Los Angeles, 30 Aug. 1929.

890. FLUTE IN C. *Rudall & Rose, London, 1837-47.*

Boehm's 1832 system with Briccialdi thumb and both D and D-sharp trill keys, open G-sharp; rosewood with engraved silver band at embouchure and silver fittings; 666 mm. Bought from J. Clayton Boyes, Bushey, England, 6 Sept. 1929.

891. FLUTE IN C. *C. Peloubet, New York, 1829-35.*

8 keys; rosewood with silver keys and ivory rings; 668 mm. Bought from Mrs. G. W. Andrews, Braintree, Mass., 6 Sept. 1929.

892. GALOUBET. *J. Boeuf, Marseille, 1917.*

3 (twin holes)/0; 2 body joints; ebony (?) with silver ring; 303 and 315 mm; illus. (Plate viii) Girard's *La Flûte*, 1953. Bought from Masspacher, Paris, 6 Sept. 1929.

893. FLUTE IN C. *Tabard, Lyon, c. 1820-48.*  
5 keys; ivory with silver fittings; 614 mm. Bought from Masspacher, Paris, 6 Sept. 1929.
894. FLUTE IN F. *Buffet, Crampon & Cie, Paris, c. 1929.*  
Boehm system, closed G-sharp; 2 joints; silver; 518 mm. Bought from Masspacher, Paris, 6 Sept. 1929.
895. FLUTE IN E-FLAT. *Louis Lot, Paris, c. 1892.*  
Boehm's 1832 system, closed G-sharp; light wood with silver fittings; 569 mm. Bought from Masspacher, Paris, 6 Sept. 1929.
896. FLUTE IN C. *D. Noblet Ainé, La Couture, c. 1840.*  
5 keys; solid tortoise shell with silver fittings; 611 mm. Bought from LeBlanc Factory, La Couture, 6 Sept. 1929.
897. VERTICAL WHISTLE FLUTE. *North American Indian (Winnebago), late 19th cent.*  
5/0; wood stained red with 9 sinew wrappings and 2 bands of beads; 642 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 28 Sept. 1929.
898. VERTICAL WHISTLE FLUTE. *North American Indian (Ute), late 19th cent.*  
6/0; wood stained yellow with incised design; flue cover carved in shape of animal; 12 thong windings with fringe; 543 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 28 Sept. 1929.
899. FLUTE IN C. *Firth, Pond & Co., New York, 1848-65.*  
8 keys; rosewood with silver keys and ivory rings; 664 mm. Bought from Arthur Stringer, Portland, Oregon, 1 Nov. 1929.
900. FLUTE IN C. *Firth, Hall & Pond, New York, 1843-48.*  
4 keys; boxwood with brass keys and ivory rings; 604 mm. Bought from W. Brackenburg, La Jolla, California, 6 Nov. 1929.
901. FLUTE IN C. *A. Hopkins, Litchfield, Connecticut, c. 1830.*  
9 keys; rosewood with silver fittings; 662 mm. Gift from the estate of Roy Desmond Huxley, Cleveland, 8 Nov. 1929.
902. FLUTE IN A. *J. Wood, London, 1799-1808.*  
5 keys; ivory with silver fittings; 775 mm. Bought from Harold Reeves, London, 15 Nov. 1929.
903. FLUTE IN C. *Gerock & Wolf, London, 1831-32.*  
4 keys; boxwood with silver keys and ivory rings; 602 mm. Bought from Harold Reeves, London, 15 Nov. 1929.
904. WALKING STICK FLUTE IN C. *Anon., early 19th cent.*  
6 keys; rosewood with silver fittings and ivory knob; 877 mm. Gift of John T. Shiel, Walkden, England, 5 Dec. 1929.
905. FLUTE IN C. *Anon., early 19th cent.*  
5 keys; boxwood with ivory keys and rings; 622 mm. Gift of W. Louis Chapman, Providence, Rhode Island, 12 Dec. 1929.
906. FLUTE IN C. *J. Ziegler, Vienna, 1820-47.*  
15 keys; foot to A; grenadilla with ivory head and silver fittings; 789 mm. Bought from Sumner Healey, New York, 14 Dec. 1929.
907. BASS RECORDER IN F. *Anon., 18th cent.*  
1 key; wood with brass fittings; 952 mm. Bought from Henning Oppermann, Basel, 2 Jan. 1930.
908. WALKING STICK FLUTE IN C. *Lambert, Paris, 18th cent.*  
1 key; light colored wood with key of the same wood and brass ferrule; 890 mm. Bought from Sumner Healey, New York, 10 Jan. 1930.
909. FLUTE IN C. *Astor & Co., London, 1798-1800.*  
1 key; boxwood with ivory key and rings; 608 mm. Bought from Charlotte W. Hardy, Brewer, Maine, 20 Jan. 1930.

910. FLUTE IN C. *Firth, Pond & Co., New York, 1848-65.*

1 key; boxwood with brass fittings; 608 mm. Bought from Mrs. Charles G. Franklin, Detroit, 6 Jan. 1930.

911. DOUBLE FLAGEOLET-FLUTE. *Bainbridge, London, 1819.*

Two parallel flutes with whistle heads connected to single side blow tube; right tube: 3/0, 4 keys plus shutter operated by lips; left tube: 5/0, 5 keys; boxwood with silver keys and ivory rings; 600 mm. Bought from W. Howard Head, London, 8 Feb. 1930.

912. PICCOLO IN D-FLAT. *S. A. Chappell, London, 1871-1904.*

6 keys; cocus with silver fittings; 284 mm. Gift of William Powell, Birmingham, England, 8 Feb. 1930.

913. VERTICAL WHISTLE FLUTE. *North American Indian (Southern Ute), late 19th cent.*

6/0; yellow wood with heart, cross, and other incised designs; 15 windings of thong with fringe; 730 mm. Bought from Mike Kirk, Mannelito, New Mexico, 14 Feb. 1930.

914. FLUTE IN C. *A. G. Badger, New York, mid-19th cent.*

Boehm system, open G-sharp; silver with ebonite head; 665 mm. Bought from Baxter Northup Co., Los Angeles, 1 March 1930.

915. FLUTE IN C. *Wm. S. Haynes, Boston, c. 1900.*

Boehm system, closed G-sharp (left-hand flute); grenadilla with gold plated fittings; 683 mm. Bought from Wilfred T. Badger, Lowell, Massachusetts, 1 March 1930.

916. FLUTE IN C. *Quantz, Potsdam, c. 1750.*

2 keys (E-flat and D-sharp); 6 upper body joints; ebony with silver keys and ivory rings; 636, 641, 650, 658, 664, and 672 mm; illus. (Plates viii and xi) Girard's *La Flûte*, 1953. Flute has Quantz' tuning slide. The case is a decorated casket of porcelain. This flute belonged to Frederick the Great and after his death it was presented by King Frederick William

II to his minister, Wöllner. It remained in Wöllner's family until it was sold by Dr. Achim von Arnim (husband of a descendant of Wöllner) through Jacques Rosenthal of Munich to DCM on 1 March 1930. (See illustration.)

917. FLUTE IN C. *I. W. Hoe, "Hof.," mid-18th cent.*

1 key; 2 upper body joints; ebony with silver key and ivory ring; 626 and 636 mm. Bought from Charles Fischer, Budapest, 4 March 1930.

918. CZAKAN. *J. Ziegler, Vienna, 1820-47.*

12 keys; grenadilla with ivory head and silver fittings; 504 mm. Bought from Charles Fischer, Budapest, 4 March 1930.

919. CZAKAN. *Hungary, early 20th cent.*

6/0; wood with holes burned in; 307 mm. Bought from Charles Fischer, Budapest, 4 March 1930.

920. CZAKAN. *Hungary, early 20th cent.*

6/0; wood with holes burned in; 392 mm. Bought from Charles Fischer, Budapest, 4 March 1930.

921. CZAKAN. *Hungary, early 20th cent.*

6/0; wood with holes burned in; 498 mm. Bought from Charles Fischer, Budapest, 4 March 1930.

922. FLUTE IN C. *W. J. Davis, New York, 1845-53.*

8 keys (Nicholson holes); rosewood with silver fittings; 666 mm. Bought from Alfred M. Uhler, Concord, Mass., 10 March 1930.

923. FLUTE IN C. *Meacham & Pond, Albany, 1828-33.*

6 keys; rosewood with silver keys and ivory rings; 612 mm. Bought from Alfred M. Uhler, Concord, Mass., 10 March 1930.

924. PICCOLO IN E-FLAT. *H. F. Meyer, Hannover, mid-19th cent.*

6 keys; grenadilla or ebony with ivory head and silver fittings; 257 mm. Bought from F. Delcomyn, St. Louis, Missouri, 12 March 1930.

925. FLUTE IN C. *Firth, Hall & Pond, New York, 1833-47.*

1 key; pear wood(?) with brass fittings; 608 mm. Bought from Norval Stewart, Binghamton, New York, 17 March 1930.

926. FLUTE IN C. *J. M. Bürger, Strassburg, c. 1900.*

Boehm's 1832 system, closed G-sharp; cocus with silver fittings; 680 mm. Bought from Baxter-Northup Co., Los Angeles, 20 March 1930.

927. FLUTE IN C. *C. G. Christman, New York, 1828-57.*

4 keys; apple wood(?) with brass keys and ivory rings; 600 mm. Bought from H. A. Rhodes, Baltimore, 21 March 1930.

928. FLUTE IN C. *Herman Wrede, London, 1829-46.*

1 key; pear wood(?) with brass fittings; 612 mm. Bought from Elizabeth M. Bacon, Roxbury, Mass., 22 March 1930.

929. FLUTE IN C. *E. Baack, New York, 1840-72.*

1 key; pear wood(?) with brass key and ivory rings; 600 mm. Bought from L. Mack Close, St. Louis, Missouri, 20 Nov. 1939.

930. FLUTE IN C. *Firth, Hall & Pond, New York, 1833-47.*

6 keys; wood stained dark brown with brass keys and ivory rings; 603 mm. Bought from Whitlock's Book Store, New Haven, Connecticut, 27 March 1930.

931. FLUTE IN C. *Anon., early 19th cent.*

1 key; wood with brass key and ivory rings; 609 mm. Label accompanying flute: "One of Ye Old Timers from the War of 1812. Flute was used by Old Jeff Selden at Ft. Presque Isle Battle of Lake Erie 1813." Bought from Nettie Lampport Lamb, Lake City, Minnesota, 1 Apr. 1930.

932. FLUTE IN C. *Wm. Whiteley, Utica, New York, c. 1830.*

1 key; apple or pear wood with brass key and ivory rings; 603 mm. Bought from Mrs. L. O. Bullock, Richmond, Virginia, 3 Apr. 1930.

933. FLUTE IN E-FLAT. *Blume, London, c. 1800.*

1 key; boxwood with silver key and ivory rings; 506 mm. Bought from Whitlock's Book Store, New Haven, Connecticut, 5 Apr. 1930.

934. FLUTE IN C. *F. G. A. Kirst, Potsdam, 1777-1802.*

5 keys; ebony with silver keys and ivory rings; flute has a register; 613 mm. Bought from Mrs. F. D. Oppie, Winchester, Virginia, 14 Apr. 1930.

935. VERTICAL WHISTLE FLUTE. *North American Indian (Jicarilla Apache), late 19th cent.*

6/0; light stained wood with colored designs including a snake, eagle, and flowers; thong windings; 913 mm. Bought from Fred Harvey, Albuquerque, New Mexico, 21 Apr. 1920.

936. FLUTE IN C. *W. Milhouse, London, 1799-1828.*

1 key; boxwood with brass fittings; 608 mm. Bought from H. J. Klasky, Plymouth, Mass., 5 May 1930.

937. FLUTE IN C. *Anon., mid-19th cent.*

8 keys (Nicholson holes); rosewood with engraved silver lip plate and silver fittings; 660 mm. Bought from G. Merigioli, Seattle, Washington, 7 May 1930.

938. WHISTLE. *North American Indian (Kickapoo), late 19th cent.*

Bamboo with 3 wavy lines carved full length of whistle; snake is cut by light incised lines; 347 mm. Bought from Albert G. Heath, Chicago, 7 May 1930.

939. WHISTLE. *North American Indian (Kichai), late 19th cent.*

Slender tube of bamboo(?); quill flue cover attached with sinew; 455 mm. Bought from Albert G. Heath, Chicago, 7 May 1930.

940. WHISTLE. *North American Indian (Utsehta or Little Osage), late 19th cent.*

Tube of hard wood forms into bird's beak(?) at lower end; 3 strips of braided grass are attached with thong; 640 mm. Bought from Albert G. Heath, Chicago, 7 May 1930.

941. RIBBON REED INSTRUMENT. *North American Indian (Kwakiutl, British Columbia), late 19th cent.*  
 "Box" of pine(?) hollowed out with a flat cover; 173 mm. Bought from Albert G. Heath, Chicago, 7 May 1930.
942. DOUBLE FLAGEOLET. *Scott, London, c. 1806.*  
 7/2, 4 keys plus shutter (British Patent No. 2995, Scott, 1806); wood with silver keys and ivory rings, studs and beak; 433 mm. Bought from W. Howard Head, London, 9 May 1930.
943. FLUTE IN C. *Schröder, London, c. 1800.*  
 1 key; stained boxwood or apple wood with brass key and ivory rings; 596 mm (without cap). Bought from Norval Stewart, Binghamton, New York, 13 May 1930.
944. FIFE IN A-FLAT. *W. Crosby, Boston, c. 1850-74.*  
 Rosewood with engraved silver tips; 445 mm. Bought from N. C. Godsoe, Boston, 17 May 1930.
945. ALTO RECORDER IN F. *Anon., 18th cent.*  
 7/1; ivory engraved with leaves, flowers, birds, etc.; head joint consists of 2 pieces which screw together; foot joint consists of 3 pieces which screw together; 488 mm. Bought from Antique Art Galleries, Ltd., London, 2 June 1930.
946. FLUTET OR PICCO PIPE. *Anon. mid-19th cent.*  
 3/0; boxwood stained black; 89 mm. Bought from W. Howard Head, London, 2 June 1930.
947. "ALTO" ENGLISH FLAGEOLET. *Hastrick, London, 1835-55.*  
 6/0, 6 keys; lowest pitch G<sup>1</sup>; rosewood with silver fittings and pearl beak; 517 mm. Bought from W. Howard Head, London, 2 June 1930.
948. FLUTE IN C. *Geib & Walker, New York, 1829-43.*  
 1 key; pear wood(?) with brass key and ivory rings; 604 mm. Bought from Ernest Ritter Antiques, Erie, Pennsylvania, 18 June 1930.
949. FLUTE IN C. *A. Grenser, Dresden, 1789.*  
 4 keys; ebony with silver keys and ivory rings; flute has a register; 601 mm. Bought from Schmehl-Kundsens, Martinez, California, 9 July 1930.
950. WHISTLE. *Anon., 19th cent.*  
 Ivory; carved head and shoulders; 75 mm. Bought from Antique Art Galleries, Ltd., London, 30 July 1930.
951. FLUTE IN C. *George Wood, London, 1829-36.*  
 6 keys; foot to C<sup>1</sup>; boxwood with silver fittings; 664 mm. Bought from W. Hayes, London, 30 July 1930.
952. FLUTE IN C. *Robert Wolf & Co., London, 1837-40.*  
 4 keys; boxwood with silver fittings; 603 mm. Bought from W. Hayes, London, 30 July 1930.
953. FLUTE IN C. *R. W. Evans, London, 1822-39.*  
 7 keys; ebony with ivory inset at embouchure and silver fittings; 675 mm. Bought from W. Hayes, London, 30 July 1930.
954. FLUTE IN C. *Potter, London, early 19th cent.*  
 7 keys; 3 upper body joints; rosewood with silver fittings; 655 mm. Bought from W. Hayes, London, 30 July 1930.
955. FLUTE IN C. *Astor & Horwood, London, 1815-1822.*  
 6 keys; foot to C<sup>1</sup>; ebony with silver keys and ivory rings; 667 mm. Bought from W. Hayes, London, 30 July 1930.
956. FLUTE IN C. *Rudall & Rose, London, c. 1827-37.*  
 8 keys; left handed flute; rosewood with silver keys and ivory rings; 660 mm. Bought from W. Hayes, London, 17 Sept. 1930.
957. FLUTE IN E-FLAT. *Distin, London, c. 1860.*  
 8 keys; rosewood with silver fittings; 558 mm. Bought from W. Hayes, London, 17 Sept. 1930.

958. FLUTE IN C. *C. Gerock, London, 1804-1821.*  
6 keys; foot to C<sup>1</sup>; boxwood or satinwood with silver keys and ivory rings; 619 mm. Bought from W. Hayes, London, 17 Sept. 1930.
959. FLUTE IN C. *Prosser, London, pre-1767-1777.*  
1 key; boxwood with silver key and ivory rings; 607 mm. Bought from W. Hayes, London, 17 Sept. 1930.
960. FLUTE IN C. *Simpson, London, c. 1830-69.*  
8 keys; rosewood with silver fittings; 669 mm. Bought from W. Hayes, London, 17 Sept. 1930.
961. FLUTE IN E-FLAT(?). *Anon., late 18th cent.*  
1 key; each of the four joints consists of two pieces; ivory with silver fittings; 545 mm. DCM: "The length seems of peculiar proportions; the upper holes give E-flat LP, but the spacing of body holes more nearly matches C scale." Bought from secondhand store on Christopher Place, London, 5 Aug. 1930.
962. FLUTE IN C. *Dobner & Consort, Strasbourg, c. 1830.*  
1 key; boxwood with silver key and ivory rings; 619 mm. Bought from Pierre Hans, Brussels, 9 Aug. 1930.
963. PICCOLO IN C. *Dobner & Consort, Strasbourg, c. 1830.*  
1 key; boxwood with brass key and ivory rings; 325 mm. Bought from Pierre Hans, Brussels, 9 Aug. 1930.
964. PICCOLO IN E-FLAT. *Bühner & Keller, Strasbourg, c. 1780-1837.*  
1 key; boxwood with brass key and ivory rings; 275 mm. Bought from Pierre Hans, Brussels, 9 Aug. 1930.
965. FLUTE IN C. *Sax, Brussels, c. 1815-40.*  
8 keys; grenadilla (?) with silver fittings; 676 mm. Bought from George Cloetens, Brussels, 9 Aug. 1930.
966. FLUTE IN C. *Dupre, Tournay, Belgium, early 19th cent.*  
5 keys; ebony with silver keys and ivory rings; 625 mm. Bought from George Cloetens, Brussels, 9 Aug. 1930.
967. CZAKAN. *Anon., Germany, 1929.*  
7/1, 1 key; grenadilla with silver fittings; 517 mm. Bought from Julius Heinrich Zimmermann, Leipzig, 19 Aug. 1930.
968. CZAKAN. *Anon., early 20th cent.*  
7/0, 6 keys; grenadilla with silver fittings; 350 mm. Bought from Julius Heinrich Zimmermann, Leipzig, 19 Aug. 1930.
969. TILINKO (VERTICAL WHISTLE FLUTE). *Anon., Hungary, early 20th cent.*  
6/0; wood; 296 mm. Bought from Julius Heinrich Zimmermann, Leipzig, 19 Aug. 1930.
970. "FORTUNA" (DOUBLE FLAG-EOLET). *Alois Hörl (made for J. H. Zimmermann), Leipzig, 1930.*  
Each tube: 4/0, 1 key; lowest pitches D-sharp<sup>2</sup> and F-sharp<sup>2</sup>; wood with silver fittings and ivory beak; 373 mm. DCM: "This is an experimental 'double flageolet' made by Zimmermann's maker, Alois Hörl, not yet on the market." Bought from Julius Heinrich Zimmermann, Leipzig, 19 Aug. 1930.
971. FLUTE IN C. *Stengel, Bayreuth, c. 1810-25.*  
6 keys; boxwood with brass keys and ivory rings; 618 mm. Bought from Jacob Spaeth, Munich, 26 Aug. 1930.
972. FLUTE IN C. *L. Lintner, Augsburg, c. 1820.*  
9 keys; ebony with silver fittings; 691 mm. Bought from Jacob Spaeth, Munich, 26 Aug. 1930.
973. FLUTE IN C. *E. Schöffl, Munich, c. 1818.*  
8 keys; foot to C-sharp<sup>1</sup>; extra B-flat lever with unusual touch between holes for F and F-sharp; ebony with silver fittings; 640 mm. Bought from Jacob Spaeth, Munich, 26 Aug. 1930.

974. FLUTE IN C. *Th. Boehm, Munich, 1832-47.*

Boehm's 1832 system, open G-sharp; cocus with silver fittings; 653 mm. Bought from Sigmund Koch, Munich, 27 Aug. 1930.

975. FLUTE IN C. *Th. Boehm, Munich, c. 1829.*

9 keys; cocus with silver fittings; 670 mm; illus. (Plate XIII) (Girard's *La Flûte*, 1953. Bought from Sigmund Koch, Munich, 27 Aug. 1930. (See illustration.)

976. DOUBLE VERTICAL WHISTLE FLUTE. *Source unknown.*

Right tube: 4/0; left tube: 3/0; lowest pitch B<sup>1</sup>; carved from one piece of wood; 356 mm. Bought from Sigmund Koch, Munich, 27 Aug. 1930.

977. FLUTE IN C. *I. W. Hoe, "Hof.," c. 1785.*

1 key; boxwood with silver key and ivory rings; upper body joint seems to be of different wood; flute has a register; 638 mm. Bought from Sigmund Koch, Munich, 27 Aug. 1930.

978. FLUTE IN C. *Adler, Bamberg, Germany, 1809-50.*

8 keys; boxwood with brass keys and ivory rings; 662 mm. Bought from Sigmund Koch, Munich, 27 Aug. 1930.

979. FLUTE IN C. *J. G. Freyer, Potsdam, c. 1775.*

5 keys; boxwood with silver keys and ivory rings; 628 mm. Bought from Sigmund Koch, Munich, 27 Aug. 1930.

980. FLUTE IN C. *Fr. Carl, Nürnberg, early 19th cent.*

8 keys; foot to C-sharp<sup>1</sup>; boxwood with brass keys and ivory rings; 643 mm. Bought from Sigmund Koch, Munich, 27 Aug. 1930.

981. FLUTE IN C. *Stiegler, Munich, c. 1810-45.*

1 key; walnut(?) with brass key and ivory rings; 610 mm. Bought from Sigmund Koch, Munich, 27 Aug. 1930.

982. WALKING STICK FLUTE. *Anon., early 19th cent.*

1 key; light wood with brass fittings; 817 mm. Bought from Sigmund Koch, Munich, 27 Aug. 1930.

983. PANPIPES. *Anon., Germany, 1930.*

8 pipes; range E-flat<sup>3</sup>-E-flat<sup>4</sup>; pink and blue celluloid; 60-25 mm. Bought from music store on Main Street, Interlaken, Switzerland, 2 Sept. 1930.

984. FLUTE IN E-FLAT. *T. Lot, Paris, c. 1740-85.*

1 key; boxwood with silver key and ivory rings; 527 mm. Bought from Pierre Schneider, Paris, 4 Sept. 1930.

985. FLUTE IN E-FLAT. *Godfroy Aîné, Paris, c. 1814-25.*

1 key; boxwood(?) with brass fittings; 523 mm. Bought from Pierre Schneider, Paris, 4 Sept. 1930.

986. FLUTE IN C. *Vinnen, Paris, c. 1835.*

1 key; rosewood(?) with silver key and ivory rings; 614 mm. Bought from Pierre Schneider, Paris, 4 Sept. 1930.

987. FLUTE IN C. *P. Maino, Milan, 1830-80.*

11 keys; foot to B; boxwood with brass keys and black horn rings; 710 mm. Bought from Masspacher, Paris, 5 Sept. 1930.

988. FLUTE IN C. *Louis Lot, Paris, c. 1860.*

5 keys; rosewood or grenadilla with silver fittings; 607 mm. Bought from H. Manière, Paris, 5 Sept. 1930.

989. ALTO RECORDER IN D. *P. Bressan, London, early 18th cent.*

7/1; wood with ivory rings; 607 mm. Bought from W. Howard Head, London, 16 Sept. 1930.

990. ENGLISH FLAGEOLET. *Bainbridge & Wood, London, 1808-20.*

7/1, 2 keys (British Patent No. 2693, Bainbridge, 1803); boxwood with silver keys and ivory rings, studs, and beak; 401 mm. Bought from W. Howard Head, London, 16 Sept. 1930.

991. ENGLISH FLAGEOLET. *Parker, London, c. 1800.*  
7/1; lowest pitch F<sup>2</sup>; boxwood with ivory studs and beak; 340 mm. Bought from W. Howard Head, London, 16 Sept. 1930.
992. ENGLISH FLAGEOLET. *T. Prowse, London, 1834-68.*  
7/1, 1 key; boxwood with brass key and ivory studs and beak; 423 mm. Bought from W. Howard Head, London, 16 Sept. 1930.
993. ENGLISH FLAGEOLET. *Abel, Northampton, c. 1794.*  
7/0, 1 key; boxwood with brass key and ivory rings, studs, and beak; 410 mm. Bought from W. Howard Head, London, 16 Sept. 1930.
994. FIFE IN C. *Clementi & Co., London, 1802-21.*  
Pear wood(?) with brass ferrules; 424 mm. Gift of W. Howard Head, London, 16 Sept. 1930.
995. FLUTE IN C. *F. G. A. Kirst, Potsdam, 1777-1802.*  
6 or 8 keys; 4 upper body joints; 2 foot joints (for C or D); D foot has a register; ebony with silver keys and ivory rings; 650, 666, 681, and 687 mm (with C foot). Bought from Zimmermann, Markneukirchen, Germany, 27 Sept. 1930.
996. FLUTE IN C. *H. Grenser, Dresden, 1779-1806.*  
5 keys; ebony with silver keys and ivory rings; 615 mm. Bought from Zimmermann, Markneukirchen, Germany, 27 Sept. 1930.
997. FLUTE IN C. *A. Grenser, Dresden, and Schlegel, Basel, late 18th cent.*  
1 key; boxwood with brass key and ivory rings; 642 mm. Head marked: "A. Grenser"; body marked: "Schlegel." Bought from Zimmermann, Markneukirchen, Germany, 27 Sept. 1930.
998. FLUTE IN C. *I. Bischoff, Gotha, Germany, c. 1814.*  
1 key; boxwood with brass key and ivory rings; 630 mm. Bought from Zimmermann, Markneukirchen, Germany, 27 Sept. 1930.
999. DOUBLE VERTICAL WHISTLE FLUTE. *Source unknown.*  
Right tube: drone; left tube: 6/0; lowest pitches F<sup>2</sup> and C<sup>2</sup>; light colored wood; 298 mm. Bought from Zimmermann, Markneukirchen, Germany, 27 Sept. 1930.
1000. FLUTE IN C. *Franz Höfer, place unknown, c. 1820.*  
6 keys; boxwood or curly wood with brass keys and black horn rings; 590 mm. Bought from Emil Müller, Presnitz, Czechoslovakia, 27 Sept. 1930.
1001. FLUTE IN G. *F. Bauer, Prague, c. 1775.*  
1 key; boxwood with brass key and black horn rings; 865 mm. Bought from Emil Müller, Presnitz, Czechoslovakia, 27 Sept. 1930.
1002. "OCARIFLUTE" (OCARINA). *Ch. Mathieu, Paris, 1930.*  
8/2; lowest pitch B-flat<sup>2</sup>; pewter; 145 mm. Bought from Baxter-Northup Co., Los Angeles, 1 Oct. 1930.
1003. "OCARIFLUTE" (OCARINA). *Ch. Mathieu, Paris, 1930.*  
8/2; lowest pitch C<sup>2</sup>; pewter; 259 mm. Bought from Baxter-Northup Co., Los Angeles, 1 Oct. 1930.
1004. OCARINA. *Ch. Mathieu, Paris, 1930.*  
8/2; lowest pitch C<sup>2</sup>; pewter; with tuning slide; 171 mm. Bought from Baxter-Northup Co., Los Angeles, 1 Oct. 1930.
1005. OCARINA. *Ullmann, Paris, 1930.*  
8/2; lowest pitch C<sup>2</sup>; china covered on outside with celluloid; 167 mm. Bought from Baxter-Northup Co., Los Angeles, 1 Oct. 1930.
1006. OCARINA. *Ercole Roda, France, 1930.*  
8/2; lowest pitch E-flat<sup>2</sup>; clay varnished black; with tuning slide; 170 mm. Bought from Baxter-Northup Co., Los Angeles, 1 Oct. 1930.



1007. WHISTLE. *Anon., late 19th cent.*

Natural, slender pointed horn; 115 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1008. WHISTLE. *Anon., late 19th cent.*

Ivory tuck mottled with brown stain; 111 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1009. WHISTLE. *Anon., late 19th cent.*

Carved ivory with pointed silver tip; 103 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1010. WHISTLE. *Anon., late 19th cent.*

Wood polished black; with a piece of horn and a silver band; 78 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1011. WHISTLE. *Anon., late 19th cent.*

Horn shaped like arm and hand; 94 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1012. WHISTLE. *Anon., late 19th cent.*

Ivory with carved bunch of grapes and leaves; 106 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1013. WHISTLE. *Anon., late 19th cent.*

Carved wood helmet with carved ivory face; 118 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1014. WHISTLE. *Anon., late 19th cent.*

Carved ivory head with black horn neck and long tapered hat; 101 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1015. WHISTLE. *Anon., late 19th cent.*

Carved horse's head of horn; 93 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1016. WHISTLE. *Anon., late 19th cent.*

Carved eagle's head of wood with ivory beak; iron ring in beak; 89 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1017. WHISTLE. *Anon., late 19th cent.*

Carved dog's head of wood; 103 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1018. WHISTLE. *Anon., late 19th cent.*

Pointed natural horn; 120 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1019. WHISTLE. *Anon., late 19th cent.*

Smooth horn with curved point; 96 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1020. WHISTLE. *Anon., late 19th cent.*

Tinted carved ivory rose on carved wood support; 89 mm. Bought from N. E. Carter, Elkhorn Wisconsin, 2 Oct. 1930.

1021. WHISTLE. *Anon., late 19th cent.*

Wood polished black with carved ivory flower inside; 126 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1022. WHISTLE. *Anon., late 19th cent.*

Carved wooden foot with shoe; height 116 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1023. WHISTLE. *Anon., late 19th cent.*

Brass spigot; height 125 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 2 Oct. 1930.

1024. VERTICAL WHISTLE. *North American Indian (Pawnee), late 19th cent.*

Bamboo; 423 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 8 Oct. 1930.

1025. PITCH PIPE. *Anon., early 19th cent.*

Mahogany(?); ivory inset with pitch markings; 204 mm. Bought from Whitlock's Book Store, New Haven, Connecticut, 28 Oct. 1930.

1026. FLUTE IN C. *Moritz Max Mönnig, Leipzig, c. 1925.*

Schwedler-Reform flute; foot to B; silver; 747 mm. Valderpoort: "On a recent journey in Germany I bought a rather curious flute, namely the only Schwedler-Reform Flute entirely made of metal. This flute was made for Mr. Schwedler by Moritz Max Mönnig in Leipsic, as a mark of gratitude. However as Mr. Schwedler did not approve of a metal flute it was replaced by a wooden one." Bought from W. Valderpoort, Rotterdam, 6 Nov. 1930.

1027. EFFIGY WHISTLE. *Central American Indian (Guatemala), date unknown.*

Pottery; 255 mm. Found in an Indian grave in Guatemala. Bought from N. E. Carter, Elkhorn, Wisconsin, 6 Nov. 1930. (See illustration.)

1028. FLUTE IN C. *Goulding, Wood & Co., London, c. 1804.*

4 keys; boxwood with 2 brass keys, 2 silver keys and ivory rings; 611 mm. Bought from R. T. Cole, Kennebunk, Maine, 12 Nov. 1930.

1029. FLUTE IN C. *Clair Godfroy Aîné, Paris mid-19th cent.*

Boehm system with perforated keys, closed G-sharp; silver; 675 mm. Bought from Jerome C. Paradiso, Paterson, New Jersey, 14 Nov. 1930.

1030. FLUTE IN C. *Stanesby Junior, London, mid-18th cent.*

1 key; ivory with silver fittings; 605 mm. Bought from W. Howard Head, London, 1 Dec. 1930.

1031. FLUTE IN C. *A. Rampone, Milan, late 19th cent.*

15 keys; foot to B-flat; double-walled silver tube; 735 mm. Bought from J. Clayton Boyes, Bushey, England, 1 Dec. 1930.

1032. FLUTE IN C. *Llado, Mahon, Spain, c. 1825.*

8 keys; satinwood with silver keys and ivory rings; 647 mm. Bought from Whitlock's Book Store, New Haven, Connecticut, 2 Dec. 1930.

1033. R Y U T E K I OR YOKO-BUE (CROSS FLUTE). *Japan, early 20th cent.*

7/0; rattan lacquered red inside; 398 mm. Bought from N. C. Godsoe, Boston, 20 Dec. 1930.

1034. FIFE IN E-FLAT. *Anon., mid-19th cent.*

2 keys (D-sharp and short F); rosewood(?) with silver fittings; 369 mm. Gift of Allen Loomis, Elkhart, Indiana, 24 Dec. 1930.

1035. FLUTE IN C. *Joseph L. Marcil, Detroit, c. 1910.*

Boehm system, closed G-sharp; double silver tube; 683 mm. Gift of Allen Loomis, Elkhart, Indiana, 24 Dec. 1930.

1036. FLUTE IN C. *J. H. Powell, London, c. 1826-27.*

8 keys; rosewood with silver keys and ivory rings; 671 mm. Bought from Baxter-Northup Co., Los Angeles, 27 Dec. 1930.

1037. FLUTE IN HIGH G. *Rudall, Carte & Co., London, 1891.*

Boehm system, closed G-sharp; 2 joints; cocus with ebonite lip plate and silver fittings; 499 mm. This flute is one of the instruments made to order for Sir Arthur Sullivan for the production of *Ivanhoe* in 1891. Bought from John T. Shiel, Walkden, England, 30 Dec. 1930.

1038. FLUTE IN C. *Pentenrieder, Munich, 1837-47.*

10 keys; boxwood stained and varnished dark brown with silver keys and ivory rings; 680 mm. DCM: "Unique keys equivalent to 8 keys with several extra touch-pieces and cross G-sharp. . . . This flute is old-style like 1068, with Gordon's improvements!" Bought from Wilhelm Rück, Nürnberg, Germany, 17 Feb. 1931.

1039. FLUTE IN C. *S. Koch, Vienna, 1835.*
- 10 keys; foot to B; cocus with silver fittings; 701 mm. Bought from John T. Shiel, Walkden, England, April 1931.
1040. WALKING STICK FLUTE IN C. *Anon., early 19th cent.*
- 1 key; reddish brown wood tube and key with brass rings and ferrule and black horn cap; 870 mm. Gift of estate of John T. Fagan, Portland, Maine, 8 Apr. 1931.
1041. FIFE IN A-FLAT. *Anon., mid-19th cent.*
- Silver; 442 mm. Bought from Sumner Healey, New York, 11 Apr. 1931.
1042. FLUTE IN C. *E. Forni, Milan, c. 1862.*
- 13 keys; foot to A; grenadilla with silver fittings; 798 mm. Bought from Emil Müller, Presnitz, Czechoslovakia, 15 Apr. 1931.
- 1043-A. FLUTE IN C. *William Henry Potter, London, 1809-17.*
- 8 keys; ebony with silver keys and ivory rings; 679 mm. Bought from W. Howard Head, London, 20 Apr. 1931.
- 1043-B. FLUTE MOUTHPIECE. *W. Wheatstone, London, 1820.*
- Silver-plated copper with ivory "beak"; to be adjusted to flute head joint at embouchure as a substitute for player's lips; 51 mm. Bought from W. Howard Head, London, 20 Apr. 1931.
1044. FLUTE (PART ONLY). *Benjamin Hallett, London, mid-18th cent.*
- 1 key (?); foot missing; ivory tube; 513 mm (without cap and foot). Bought from W. Howard Head, London, 20 Apr. 1931.
1045. FLUTE IN C. *Goulding & Co., London, c. 1800.*
- 1 key; stained wood with brass key and ivory rings; 608 mm. Bought from Charles E. Derry, Omaha, Nebraska, 20 Apr. 1931.
1046. FLUTE IN C. *Hollings, London, 1874-88.*
- 8 keys; rosewood with silver fittings; 655 mm. Bought from Charles E. Derry, Omaha, Nebraska, 20 Apr. 1931.
1047. FLUTE IN C. *Bacon & Hart, Philadelphia, 1818-32.*
- 7 keys (originally 6 keys, high C key has been added); foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 675 mm. Bought from N. C. Godsoe, Boston, 20 Apr. 1931.
1048. WHISTLING VASE. *Lambayeque, Peru, Pre-Inca period (Chimm period).*
- Pottery; 145 mm. Found in a mummy grave at Lambayeque. Bought from N. E. Carter, Elkhorn, Wisconsin, 8 June 1931.
1049. CLARINET IN B-FLAT. *Sautermeister & Müller, Lyon, c. 1830.*
- 9 keys; boxwood with brass keys and ivory rings; 600 mm. Bought from Henning Oppermann, Basel, Oct. 1930-March 1931.
1050. FLUTE IN C. *Anon., mid-19th cent.*
- 6 keys; stained wood with brass keys and ivory rings; 602 mm. Bought from L. K. Watson, York, Pennsylvania, June 1931.
1051. FLUTE IN C. *Claude Laurent, Paris, 1807.*
- 4 keys; clear fluted glass with silver fittings; 619 mm. Earliest Laurent flute known to DCM. Bought from W. Hayes, London, June-July 1931.
1052. FLUTE IN E-FLAT. *Monzani & Co., London, 1820-29.*
- 4 keys; boxwood with brass keys and ivory rings; 508 mm. Gift of Adam Carse, London, 23 July 1931.
1053. PICCOLO IN C. *Djalma Julliot, "La Couture," 1902.*
- Boehm system, closed G-sharp; silver; 317 mm. Bought from E. Angles, Paris, 3 Aug. 1931.

1054. FLUTE IN C. *Clair Godfroy Ainé, Paris, mid-19th cent.*

8 keys; rosewood with silver fittings; 664 mm. Gift of Henri Selmer, Paris, 4 Aug. 1931.

1055. ALTO RECORDER IN F. *Bizey, Paris, c. 1716-52.*

7/1; wood; 525 mm. Bought from H. Manière, Paris, 5 Aug. 1931.

1056. FLUTE IN C. *Th. Boehm, Munich, 1832-47*

Boehm's 1832 system, closed G-sharp (originally open G-sharp, now closed with extra lever for right first finger), key between A and A-sharp holes—purpose unknown; rosewood(?) with silver fittings; 675 mm. Bought from H. Manière, Paris, 5 Aug. 1931.

1057. FLUTE IN C. *Buthod & Thibouville, Paris, c. 1857-67.*

12 keys (two C keys plus unique key above F-sharp hole); rosewood with silver fittings; 668 mm. Bought from H. Manière, Paris, 5 Aug. 1931.

1058. FRENCH FLAGEOLET. *Thibouville—Grandin, Paris, mid-19th cent.*

4/2, 3 keys; wood with silver keys and ivory rings and beak; 392 mm. Bought from H. Manière, Paris, 5 Aug. 1931.

1059. CLARINET IN A AND B-FLAT. *Buffet(?), Paris(?), c. 1862.*

18 keys, 6 rings (French Patent No. 53,494, Buffet, 1862); silver; 618 mm (without mouthpiece). Clarinet has 2 sets of holes on an inner tube and 2 sets of keys on the outer tube. One or the other set of holes is brought into use by turning the inner tube. Bought from H. Manière, Paris, 5 Aug. 1931.

1060. OBOE IN C. *Buffet, Crampon & Cie., Paris, mid-19th cent.*

15 keys, 4 rings; rosewood(?) with silver fittings; 557 mm. Bought from H. Manière, Paris, 5 Aug. 1931.

1061. OBOE IN C. *Noblet & Thibouville, Ivry-La-Bataille, c. 1863.*

10 keys; wood with silver fittings; 562 mm. Bought from H. Manière, Paris, 5 Aug. 1931.

1062. OBOE IN C. *Anon., mid-19th cent.*

15 keys; wood stained dark brown with silver keys and ivory rings; 526 mm. Bought from H. Manière, Paris, 5 Aug. 1931.

1063. FLUTE IN C. *Breton, Paris, 1862.*

10 keys (8 keys plus D-sharp lever for left little finger and key for high E); green fluted glass with silver fittings; 588 mm. Exhibited at the London International Exhibition of 1862. Bought from Couesnon & Cie., Paris, 5 Aug. 1931.

1064. CUCKOO WHISTLE. *Anon., late 19th cent.*

Pitches A<sup>2</sup> and F-sharp<sup>2</sup>; hole closed by lever (bird's head feathers); wood roughly in shape of bird with beak, eyes and head feathers; design burned in; 180 mm. Bought from curio store on Main Street, Interlaken, Switzerland, 15 Aug. 1931.

1065. FLUTE IN C. *Collinet, Paris, c. 1821-42.*

1 key; ebony with silver key and ivory rings; 623 mm. Gift of W. C. McQuillen, Munich, 18 Aug. 1931.

1066. FLUTE IN C. *I. Ebner, Munich, 1828-37.*

6 keys; pear wood(?) with brass keys and black horn rings; 596 mm (without cap). Bought from S. Spaeth, Munich, 18 Aug. 1931.

1067. FLUTE IN C. *Pentenrieder, Munich, 1837-49.*

7 keys; foot to C-sharp<sup>1</sup>; ebony with silver fittings; 644 mm. Bought from Sigmund Koch, Munich, 18 Aug. 1931.

1068. FLUTE IN C. *Pentenrieder, Munich, 1837-47.*

8 keys; boxwood with brass keys and black horn rings; 668 mm. Bought from Sigmund Koch, Munich, 18 Aug. 1931.

1069. FLUTE IN C. *Ottensteiner, Munich, c. 1854.*

7 keys; foot to C-sharp<sup>1</sup>; boxwood with silver keys and ivory rings; 634 mm. Bought from Sigmund Koch, Munich, 18 Aug. 1931.

1070. FLUTE IN C. *Adler, Bamberg, Germany, c. 1830.*

1 key; boxwood with brass key and black horn rings; 601 mm. Bought from Sigmund Koch, Munich, 18 Aug. 1931.

1071. FLUTE IN C. *G. Zencker Jun., Adorf(?), late 18th cent.*

1 key; boxwood with brass key and black horn rings; 623 mm. Bought from Sigmund Koch, Munich, 18 Aug 1931

1072. NOTCHED FLUTE. *Nilo-Hamitic (Nyoro or Toro), Africa, late 19th cent.*

4/2; bamboo with 2 bands of red, white, pink, and blue beads; 587 mm. Bought from Willi Wennerscheid, Berlin, 28 Aug. 1931

1073. FLUTE IN C. *Milhouse, Newark, England, 1763-88*

1 key; ivory with silver key; 597 mm (without cap) Bought from William Powell, Birmingham, England, Aug. 1931

1074. FRENCH FLAGEOLET. *Henry Riley & Sons Ltd., Birmingham, England, 1895(?)*.

4/2, 7 keys; wood enamelled black with silver fittings and ivory beak; 378 mm. Bought from William Powell, Birmingham, England, Aug. 1931.

1075. FLUTE IN C. *Willis, London, 1826-40.*

8 keys; ivory with silver fittings; 657 mm. Bought from W Hayes, London, 26 Sept. 1931.

1076. FLUTE IN C. *Freeman, London, 1815-34.*

8 keys (Nicholson holes); curly satin wood with silver fittings; 659 mm. Bought from W. Hayes, London, 26 Sept. 1931.

1077. FLUTE IN C. *W. H. Hayden, London, c. 1845.*

4 keys; stained wood with silver keys and ivory rings; 599 mm. Bought from W. Hayes, London, 26 Sept. 1931:

1078. FLUTE IN C. *J. Brendling, London, 1835-54.*

1 key; apple wood(?) with brass fittings; 612 mm. Bought from W. Hayes; London, 26 Sept. 1931.

1079. FLUTE IN C. *Z. T. Purdy, London, 1832-60.*

1 key; boxwood with brass key; 603 mm. Bought from W. Hayes, London, 26 Sept: 1931.

1080. FLUTE IN C. *E. G. Williams, London, c. 1820.*

4 keys; ebony with silver keys and ivory rings; 607 mm. Bought from W. Hayes, London, 26 Sept. 1931.

1081. FLUTE IN C. *Paine & Hopkins, London, 1821-36.*

6 keys; foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 667 mm. Bought from W. Hayes, London, 26 Sept. 1931.

1082. FLUTE IN C. *B. Revest, London, c. 1810.*

6 keys; foot to C<sup>1</sup>; ebony with silver keys and ivory rings; 678 mm. Bought from W. Hayes, London, 26 Sept. 1931.

1083. FLUTE IN C. *Knevelt, London, c. 1820.*

6 keys; foot to C<sup>1</sup>; rosewood with silver keys and ivory rings; 682 mm. Bought from W. Hayes, London, 26 Sept. 1931.

1084. FLUTE IN C. *Thurgood, London, c. 1820.*

8 keys; rosewood with silver fittings; 678 mm. Bought from W. Hayes, London, 26 Sept. 1931.

1085. FLUTE IN C. *E. Cuddy, London, mid-19th cent.*

8 keys; rosewood with silver fittings; 659 mm. Bought from W. Hayes, London, 26 Sept. 1931.

1086. FLUTE IN C. *Upcott, London, 1883-1911.*

8 keys; rosewood with silver fittings; 658 mm. Bought from W. Hayes, London, 26 Sept. 1931.

1087. FLUTE IN C. *Goulding & Co., London, late 18th cent.*

5 keys; foot to C-sharp<sup>1</sup>; boxwood with silver keys and ivory rings; 642 mm. Gift of W. Hayes, London, 26 Sept. 1931.

1088. PICCOLO IN C. *W. Card, London, 1840-61.*

5 keys, 3 rings, closed G-sharp (simplified Boehm system); rosewood with silver fittings; 301 mm. Bought from W. Hayes, 3 Oct. 1931.

1089. FLUTE IN C. *Rudall, Carte & Co., London, c. 1926.*

Boehm system modified, open G-sharp—McAvoy Model (British Patent No. 254,395, McAvoy(?), 1926); foot to B; 2 joints; ebonite with silver fittings; 719 mm. Bought from Mrs. John William McAvoy, Coedfryn, Bangor, North Wales, 21 Sept. 1931.

1090. WALKING STICK FLUTE IN C. *Anon., early 19th cent.*

1 key; curly and knotted wood with silver fittings; 833 mm. Bought from J. L. Hessey, Wallasey, Cheshire, England, 21 Sept. 1931.

1091. PICCOLO IN C(?). *Burghley, Camden Town (London), c. 1845.*

8/1, 1 key (Burghley's experimental chromatic open-hole system); mahogany with black wood fittings; 297 mm. Bought from Rudall, Carte & Co., London, 2 Oct. 1931.

1092. FLUTE IN C. *Burghley, Camden Town, c. 1845.*

7/1, 2 keys (1 perforated) (Burghley's experimental chromatic open-hole system); mahogany with black wood keys and ivory rings; 575 mm. Bought from Rudall, Carte & Co., London, 2 Oct. 1931.

1093. FLUTE IN C. *Burghley, Camden Town, c. 1845.*

7/2 (left thumb hole is a twin hole), 1 key (Burghley's experimental chromatic open-hole system); jointed swivel head; mahogany with black wood key and rings and 2 ivory rings; 557 mm. Bought from Rudall, Carte & Co., London, 2 Oct. 1931.

1094. FLUTE IN C. *Burghley, Camden Town, c. 1845.*

7/2 (left thumb hole is a twin hole), 1 key (Burghley's experimental chromatic open-hole system); foot to C-sharp<sup>2</sup>; mahogany with black wood key and ivory rings and screws; 635 mm. Bought from Rudall, Carte & Co., London, 2 Oct. 1931.

1095. FLUTE IN G. *Burghley, Camden Town, c. 1845.*

6/1, 6 keys (Burghley's experimental chromatic open-hole system); mahogany with black wood fittings; 830 mm. Bought from Rudall, Carte & Co., London, 2 Oct. 1931.

1096. FLUTE IN G. *Burghley, Camden Town, c. 1845.*

6/1, 6 keys (Burghley's experimental chromatic open-hole system); mahogany with black wood fittings; 961 mm. Bought from Rudall, Carte & Co., London, 2 Oct. 1931.

1097. FLUTE IN F. *Burghley, Camden Town, c. 1845.*

5/1, 7 keys (Burghley's experimental chromatic open-hole system); foot to F-sharp; jointed swivel head in 5 pieces; mahogany with black wood fittings; 1022 mm. Bought from Rudall, Carte & Co., London, 2 Oct. 1931.

1098. FLUTE IN C. *Wigley & McGregor, London, 1810-16.*

4 keys plus 4 keys for reaching finger holes (British Patent No. 3349, McGregor, 1810); foot to C; 6 joints; recurved head; boxwood with brass keys and U-tube and ivory rings; 875 mm. Bought from Rudall, Carte & Co., London, 2 Oct. 1931.

1099. FLUTE IN C. *Wigley, London, 1804-11.*

6 keys; foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 670 mm. Bought from J. Cheetham, Birkenhead, England, 1 Oct. 1931.

1100. FLUTE IN C. *Fentum, London, and W. Milhouse, London, early 19th cent.*

6 keys; foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 650 mm. "Fentum/78 Strand/London" on head and lower body; "W. Milhouse/London" on

foot. Bought from J. Cheetham, Birkenhead, England, 1 Oct. 1931.

1101. FLUTE IN C. *C. Gerock, London, c. 1821-31.*

4 keys; boxwood with silver keys and ivory rings; 608 mm. Bought from J. Cheetham, Birkenhead, England, 1 Oct. 1931.

1102. FLUTE IN C. *W. Milhouse, London, 1799-1828.*

8 keys; curly wood with silver keys and ivory rings; 667 mm. Bought from J. Cheetham, Birkenhead, England, 1 Oct. 1931.

1103. FLUTE IN C. *Card & Co., London, 1843(?)*.

8 keys (very large F-sharp hole); applewood(?) with silver fittings; 674 mm. Bought from J. Cheetham, Birkenhead, England, 1 Oct. 1931.

1104. FLUTE IN C. *Bellissent, Paris, 1818-42.*

6 keys; 2 upper body joints; rosewood with silver fittings; 612 and 624 mm. Gift of J. Cheetham, Birkenhead, England, 1 Oct. 1931.

1105. KENA (CROSS FLUTE). *South American Indian (Hunncayo), early 20th cent.*

6/0; reed pipe painted all over with green, red, white and black designs; 790 mm. Gift of Scott E. Forbush, place and date unknown.

1106. RANDADOR (PANPIPES). *Guayaquil, Ecuador, early 20th cent.*

30 pipes; range E<sup>2</sup>-D-sharp<sup>4</sup>; bamboo; 268-53 mm. Gift of Scott E. Forbush, place and date unknown.

1107. WHISTLE. *South American Indian (Manabi, Ecuador).*

Black clay; height 70 mm. From the ruins near Manta, Ecuador. Gift of Scott E. Forbush, place and date unknown.

1108. CROSS FLUTE. *South American Indian (Nasca-Pisco, Peru), said to be pre-Incan.*

5/1(?); black terra cotta with incised lines; 200 mm. Gift of Scott E. Forbush, place and date unknown.

1109. KENA (CROSS FLUTE). *South American Indian (Nasca-Pisco, Peru), said to be pre-Incan.*

4/1(?); bone; 233 mm. Gift of Scott E. Forbush, place and date unknown.

1110. VERTICAL WHISTLE FLUTE. *South American Indian (Guayaquil, Ecuador), early 20th cent.*

2/1; bamboo; 273 mm. Gift of Scott E. Forbush, place and date unknown.

1111. VERTICAL WHISTLE FLUTE. *South American Indian (Guayaquil, Ecuador), early 20th cent.*

2/1; bamboo; 292 mm. Gift of Scott E. Forbush, place and date unknown.

1112. CROSS FLUTE. *South American Indian (Jibaros, Eastern Ecuador), early 20th cent.*

6/0; bamboo decorated with beads, wax, feathers, stones, and bright paints and stains; 435 mm. Gift of Scott E. Forbush, place and date unknown.

1113. CROSS FLUTE. *South American Indian (Jibaros, Eastern Ecuador), early 20th cent.*

4/0; bamboo decorated with beads, wax, feathers, stones, and bright paints and stains; 390 mm. Gift of Scott E. Forbush, place and date unknown. (See illustration.)

1114. CROSS FLUTE. *South American Indian (Jibaros, Eastern Ecuador), early 20th cent.*

3/0; bamboo decorated with beads, wax, feathers, stones, and bright paints and stains; 470 mm. Gift of Scott E. Forbush, place and date unknown.

1115. CROSS FLUTE. *South American Indian (Jibaros, Eastern Ecuador), early 20th cent.*

2/0; bamboo decorated with beads, wax, feathers, stones, and bright paints and stains; 345 mm. Gift of Scott E. Forbush, place and date unknown.

1116. NOTCHED FLUTE. *South American Indian (Peruvian frontier in Ecuador), early 20th cent.*

5/1; bamboo; 405 mm. Gift of Scott E. Forbush, place and date unknown.

1117. ENGLISH HORN IN F *Kies, Vienna, c. 1820.*  
 9 keys; boxwood with brass keys and ivory rings; 790 mm. Bought from Schmidt Bros., Cleveland, 6 Nov. 1931.
1118. OBOE IN C. *A. Grenser, Dresden, mid-18th cent.*  
 2 keys (one with double touch); boxwood with brass keys and ivory rings; 580 mm. Bought from Schmidt Bros., Cleveland, 6 Nov. 1931
- 1119-A. BASSOON IN C. *Astor & Co., London, 1798-1826.*  
 6 keys; wood with brass fittings; 1232 mm. Source unknown.
- 1119-B. BASSOON IN C. *Wiesner, Dresden, c. 1830.*  
 17 keys; maple with brass fittings; 1260 mm. Bought from C. A. Selzer, Cleveland, 11 Dec. 1931
- 1119-C. BASSOON IN C. *Mollenhauer, Fulda, mid-19th cent*  
 13 keys; wood with brass fittings; 1275 mm. Source unknown.
1120. PANPIPES. *South American Indian (Chocó, Colombia), early 20th cent*  
 23 pipes; range(?)—E<sup>4</sup>; bamboo; 172-47 mm. Gift of Mr. and Mrs. Andrew Meyer, Cleveland, 21 Dec. 1931 (See illustration.)
1121. FLUTE IN C. *Triebert, Paris, c. 1840.*  
 6 keys; rosewood with silver fittings; 615 mm. Gift of Mrs. J. G. Griswold, Cleveland, 8 Feb. 1932.
1122. FLUTE IN C. *George Cloos, Brooklyn, New York, late 19th cent.*  
 1 key; rosewood with silver fittings; 605 mm. Bought from Norval Stewart, Binghamton, New York, 12 Feb. 1932.
1123. PICCOLO IN D-FLAT. *Anon., c. 1880.*  
 6 keys; cocus with silver fittings; 295 mm (without cap). Gift of Nadine Mills, Berea, Ohio, 12 Feb. 1932.
1124. FLUTE IN C. *Cahusac, London, 1755-98.*  
 1 key; ivory with silver key; 613 mm. Bought from W. Howard Head, London, 13 Feb. 1932.
1125. FLUTE IN C. *Stanesby Junior, London, mid-18th cent.*  
 1 key; ivory with silver key; 609 mm. Bought from W. Howard Head, London, 13 Feb. 1932.
1126. FLUTE IN C. *Parker, London, c. 1770-1815.*  
 1 key; boxwood with silver key and ivory rings; 602 mm. Bought from W. O. Leary, London, 3 March 1932.
1127. FLUTE IN C. *Preston, London, and Milligan, place unknown, late 18th cent*  
 1 key; boxwood with silver key and ivory rings; 600 mm. "Preston/London" on head, barrel and body joints; "Milligan" on foot. Bought from W. O. Leary, London, 3 March 1932.
1128. FLUTE IN C. *G. A. Rottenburgh, Brussels, mid-18th cent.*  
 1 key; boxwood with silver key and ivory rings; 602 mm. Bought from W. O. Leary, London, 3 March 1932.
1129. FLUTE IN C. *Anon., mid-19th cent.*  
 8 keys, grenadilla with silver fittings; 661 mm. Gift of Richard Halloran, Cleveland, March 1932.
1130. FLUTE IN C. *A. Kauffmann, London, c. 1821-27.*  
 8 keys; ivory with silver fittings; 660 mm (without cap). Exhibited at the Crystal Palace Exhibition, London, 1900 (p. 19, no. 61). Bought from Harold Reeves, London, 4 Apr. 1932.
1131. FLUTE IN C. *Hawes, London, 1834-47.*  
 8 keys; ivory with silver fittings; 670 mm. Bought from Harold Reeves, London, 4 Apr. 1932.
1132. FLUTE IN C. *M. H. Colonieu & Co., London, c. 1914.*  
 Boehm and old systems combined with Rudall, Carte & Co. style of mechanism;



cocus with silver fittings; 673 mm. Bought from Harold Reeves, London, 4 Apr. 1932.

1133. WALKING STICK SHAKU-HACHI. *Japan, 1932.*

4/1; bamboo with bakelite cap; 860 mm (without tip). Gift of Isamu Hirabayashi, Tokyo, 4 Apr. 1932.

1134. FLUTE IN C. *Rudall, Rose, Carte & Co., London, 1856-57.*

8 keys (raised finger holes); silver; 675 mm. Bought from J. Clayton Boyes, Bushey, England, 4 Apr. 1932.

1135. FLUTE IN C. *T. Prowse, London, 1834-68.*

8 keys ("C. Nicholson's Improved"); cocus with silver plate at embouchure and silver fittings; 662 mm. Bought from John T. Shiel, Manchester, England, 4 Apr. 1932.

1136. FLUTE IN C. *Siccama, London, 1845-62.*

9 keys (Siccama system); cocus with silver fittings; 641 mm. Bought from John T. Shiel, Manchester, England, 4 Apr. 1932.

1137. FLUTE IN C. *Cornelius Ward, London, 1842-60.*

Ward's patent system; cocus with silver fittings; 664 mm. Bought from John T. Shiel, Manchester, England, 4 Apr. 1932.

1138. FLUTE IN C. *W. Card & Liester, London, c. 1840.*

1 key; wood stained red-brown with silver key and ivory rings; 600 mm. Bought from John T. Shiel, Manchester, England, 4 Apr. 1932.

1139. FLUTE IN C. *Potter, London, 1809-17.*

6 keys; foot to C<sup>1</sup>; boxwood with ivory head, silver keys, and ivory rings; 674 mm. Bought from John T. Shiel, Manchester, England, 4 Apr. 1932.

1140. FLUTE IN C. *Potter, London, 1809-17.*

6 keys (plus added key for covering third hole); foot to C<sup>1</sup>; curly wood with silver keys and ivory rings; 657 mm.

Bought from John T. Shiel, Manchester, England, 4 Apr. 1932.

1141. FLUTE IN E-FLAT. *Wood & Ivy, London, 1836-47.*

1 key; wood stained red-brown with brass key and ivory rings; 504 mm. Bought from John T. Shiel, Manchester, England, 4 Apr. 1932.

1142. FLUTE IN C. *G. Miller, London, 1814-16.*

8 keys; rosewood with silver keys and ivory rings; 666 mm. Bought from John T. Shiel, Manchester, England, 4 Apr. 1932.

1143. FLUTE IN E-FLAT. *Henry Potter, London, 1857-79.*

4 keys; boxwood with brass keys and ivory rings; 503 mm. Bought from John T. Shiel, Manchester, England, 4 Apr. 1932.

1144. FLUTE IN E-FLAT. *Geo. Potter & Co., Aldershot, England, c. 1860.*

5 keys; cocus with silver fittings; 513 mm. Bought from John T. Shiel, Manchester, England, 4 Apr. 1932.

1145. FLUTE IN E-FLAT. *Rudall, Carte & Co., London, 1915.*

5 keys; ebonite with silver fittings; 503 mm. Bought from John T. Shiel, Manchester, England, 4 Apr. 1932.

1146. FLUTE IN HIGH A. *W. Milhouse, London, 1799-1828.*

1 key; boxwood with brass key and ivory rings; 365 mm. Bought from John T. Shiel, Manchester, England, 4 Apr. 1932.

1147. FIFE IN A. *G. C. Payne, London, 1808-35.*

Yellow wood with brass ferrule; 382 mm. Bought from John T. Shiel, Manchester, England, 4 Apr. 1932.

1148. FIFE IN A. *H. Pohlman, Halifax, c. 1823.*

Yellow wood with brass ferrules; 380 mm. Bought from John T. Shiel, Manchester, England, 4 Apr. 1932.

1149. FLUTE IN C. *Goulding, D'Almaine and Co., London, and Goulding & Co., London, early 19th cent.*

1 key; boxwood with brass key and ivory rings; 601 mm. "Goulding D'Almaine And Co." on head; "Goulding & Co." on body and foot joints. Bought from Max Rosenstock, San Francisco, 4 May 1932.

1150. FIFE IN C. *William Hall & Son, New York, 1848-75.*

Rosewood with silver ferrules; 392 mm. Bought from Norval Stewart, Binghamton, New York, 21 May 1932.

1151. VERTICAL WHISTLE FLUTE. *North American Indian (Ojibway, Canada), late 19th cent.*

8/0; natural wood tied with three bands of red wool string; wood flue cover carved in shape of a dog(?); 485 mm. Bought from Albert G. Heath, Chicago, 16 May 1932.

1152. VERTICAL WHISTLE. *North American Indian (Osage, Arkansas), late 19th cent.*

Natural bamboo with human scalp attached; "ceremonial flute"; 304 mm. Bought from Albert G. Heath, Chicago, 16 May 1932. (See illustration.)

1153. MBITU VAKA TANGI (NOSE FLUTE). *Suva, Fiji Islands, early 20th cent.*

3/1(?); natural bamboo closed at both ends by natural septum; holes and design burned in; 678 mm. Gift of William J. Reed, San Francisco, 14 June 1932.

1154. FLUTE IN C. *J. & H. Meacham, Albany, New York, c. 1824.*

1 key; boxwood with silver key and ivory rings; 605 mm. Gift of Jean Mignolet, Denver, Colorado, 17 June 1932.

1155. FLUTE IN C. *J. M. Camp, Litchfield, Connecticut, c. 1830.*

1 key; boxwood with brass key and ivory rings; 608 mm. Gift of Verne Q. Powell, Boston, 8 July 1932.

1156. FLUTE IN C. *J. Wood, London, 1799-1808.*

7 keys; foot to C<sup>1</sup>; 3 upper body joints; satinwood with silver keys and ivory rings; 666, 674, and 687 mm. Bought from W. Howard Head, London, 22 July 1932.

1157. VERTICAL WHISTLE FLUTE. *North American Indian, late 19th cent.*

6/0; piece of a gun barrel; thong winding provides flue cover; 357 mm. Bought from W. C. McQuillen, Seattle, Washington, date unknown.

1158. FLUTE IN C. *Anon., mid-19th cent.*

10 keys (low B lever for right thumb; has a piece attached which goes around flute to close low C when lever is operated); foot to B; curly wood with silver keys and ivory rings; 689 mm. Bought from Uncle Sam's Loan Office, Oakland, California, 6 Aug. 1932.

1159. ALTO RECORDER IN F. *Smart, London, c. 1775-1802.*

7/1; wood stained dark red-brown; 500 mm. Bought from W. Howard Head, London, 27 Sept. 1932.

1160. FLUTE IN C. *Clinton & Co., London, c. 1857.*

8 keys, Clinton's 1857 patent key construction (British Patent No. 3192, Clinton, 1857); silver; 648 mm. Bought from J. Clayton Boyes, Bushey, England, 27 Sept. 1932.

1161. FLUTE IN C. *Blackman, London, 1847-82.*

8 keys; rosewood with silver band at embouchure and silver fittings; 660 mm. Bought from William Powell, Birmingham, England, 8 Oct. 1932.

1162. FLUTE IN C. *Meacham & Pond, Albany, New York, 1828-33.*

8 keys; rosewood with silver fittings; 663 mm. Bought from Evaline Beach, Bay Village, Ohio, 21 Nov. 1932.

1163. FLUTE IN C. *Wheatstone, London, c. 1820-30.*

7 keys; foot to C<sup>1</sup>; ivory with silver keys; 667 mm. Bought from J. Cheetham, Birkenhead, England, 30 Nov. 1932.

1164. ENGLISH FLAGEOLET. *Camp, London, c. 1838.*

7/1, 1 key; boxwood with brass key and ivory studs and beak; 426 mm. Bought from J. Cheetham, Birkenhead, England, 30 Nov. 1932.

1165. FLUTE IN E-FLAT. *Shepherd & Sutton, London, 1829-46.*

1 key; boxwood with brass key; 511 mm. Bought from J. Cheetham, Birkenhead, England, 30 Nov. 1932.

1166. PICCOLO IN C. *Potter, London, early 19th cent.*

1 key; light wood with brass key and ivory rings; 304 mm. Bought from J. Cheetham, Birkenhead, England, 30 Nov. 1932.

1167. WHISTLE. *Central American Iidian (Lalima, Honduras), late 19th cent.*

Baked clay; effigy of a head; height 120 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 5 Dec. 1932.

1168. NOSE FLUTE. *Igorot (Baguio, Philippines), early 20th cent.*

3/1; bamboo with incised decorations; 610 mm. Gift of George B. Obear, Manila, 7 Dec. 1932.

1169. FLUTE IN C. *Monzani & Co., London, early 19th cent.*

8 keys; 2 head joints (high and low pitch); ivory with silver fittings; 672 and 676 mm. Bought from Harold Reeves, London, 9 Jan. 1933.

1170. TRIPLE FLAGEOLET. *Hastick, Late Bainbridge, London, 1837-55.*

Right tube: 4/0, 5 keys plus shutter; middle tube: 6/0, 5 keys plus shutter; left tube: 4 keys plus shutter; boxwood with silver keys and ivory rings, studs and beak; 568 mm. There is a possibility that this was not built as one instrument, in that the wood is not the same for all parts. Bought from W. Hayes, London, 10 March 1933.

1171. FLUTE IN G. *Key, London, mid-19th cent.*

8 keys; rosewood with silver keys and ivory rings; 817 mm. Bought from W. Hayes, London, 10 March 1933.

1172. FLUTE IN C. *C. Gerock, London, 1832-37.*

6 keys; foot to C<sup>1</sup>; curly wood with silver keys and ivory rings; 661 mm. Bought from William Powell, Birmingham, England, Nov.-Dec. 1932.

1173. FLUTE IN C. *L. Vanotti, Milan, c. 1925.*

Boehm system, closed G-sharp (lever for left little finger arranged to operate either D-sharp or B); foot to B; cocus with silver fittings; 718 mm. Gift of Allen Loomis, Elkhart, Indiana, Feb. 1933.

1174. FLUTE IN C. *Jas. Wood & Son, London, 1817-29.*

4 keys; boxwood with silver keys and ivory rings; flute has a register; 604 mm. Bought from J. Cheetham, Birkenhead, England, 10 March 1933.

1175. FLUTE IN C. *Smith, London, c. 1880-1890.*

6 keys; foot to C<sup>1</sup>; rosewood with silver fittings; 670 mm. Bought from J. Cheetham, Birkenhead, England, 10 March 1933.

1176. FRENCH FLAGEOLET. *Baumann, Paris, 1800-30.*

4/2; ebony with ivory rings and beak; 290 mm. Bought from W. Howard Head, London, 20 March 1933.

1177. FLUTE IN C. *Stanesby, London, early 18th cent.*

4 keys; boxwood with silver keys and ivory rings; 600 mm. "Stanesby/London" stamped on head only. The foot may be by Stanesby but the two body joints certainly are not as an original Stanesby would have only one key. Bought from W. Howard Head, London, 20 March-4 Apr. 1933.

1178. FLUTE IN C. *Wheatstone, London, c. 1813-26.*

6 keys; foot to C<sup>1</sup>; rosewood (fluted but flattened at finger holes, thumb rest, and embouchure) with silver keys and ivory rings; 676 mm. Gift of C. G. Herbery, Altadena, California, 21 March 1933.

1179. ALTO RECORDER IN F. *Dolmetsch, Haslemere, England, 1932.*  
7/1; rosewood with ivory rings and beak; 505 mm. Bought from Harold Reeves, London, 30 March 1933.
1180. FLUTE IN E-FLAT. *Thibouville Père & Fils, Paris, early 19th cent.*  
1 key; boxwood with silver key and ivory rings; 550 mm. Gift of Robert Shackleton, Louisville, Kentucky, 11 Apr. 1933.
1181. ALTO RECORDER IN F. *P. Bressan, London, early 18th cent.*  
7/1; boxwood stained dark red-brown with ivory rings and beak; 508 mm. Gift of C. G. Herbert, Altadena, California, 13 Apr. 1933.
1182. FLUTE IN C. *G. Catlin, Philadelphia, c. 1825.*  
4 keys; rosewood with silver keys and ivory rings; 623 mm. Bought from Dora E. Sceley, Ambler, Pennsylvania, 26 May 1933.
1183. FLUTE IN C. *Schuchart, London, early 18th cent.*  
1 key; light wood with metal key and ivory rings; 612 mm. (cap missing). Bought from W. Howard Head, London, 29 May 1933.
1184. VERTICAL WHISTLE. *North American Indian (Quapaw), late 19th cent.*  
Natural hard wood forms into bird's(?) head at lower end; piece of bone tied on with animal fibers; 590 mm. This instrument has no finger holes; perhaps it is an unfinished vertical whistle flute. Bought from Albert G. Heath, Chicago, 8 June 1933.
1185. FLUTE IN E-FLAT. *D'Almaine & Co., Late Goulding & D'Almaine, London, 1836-58.*  
4 keys; boxwood with brass keys and ivory rings; 498 mm. Bought from Mrs. Fred H. Rogers, Weymouth, Mass., 6 July 1933.
1186. FIFE IN A. *Anon., 19th cent.*  
Glass with mouth hole and finger holes blown out; 464 mm. Gift of W. Howard Head, London, 1 Aug. 1933.
1187. FLUTE IN C. *Goulding, D'Almaine, Potter & Co., London, 1811-23.*  
8 keys; boxwood with silver keys and ivory rings; 648 mm. Bought from William Powell, Birmingham, England, 1 Aug. 1933.
1188. KO-LING OR SHAO-TZU (PIGEON WHISTLE). *China, late 19th cent.*  
Stained gourd, very light weight; diameter *c.* 87 mm. The whistle is attached to two middle feathers of the pigeon's tail so that as the bird flies, it whistles. Gift of Canon F. W. Galpin, Richmond, England, 18 Aug. 1933.
1189. FLUTE IN C. *Kusder, London, c. 1799.*  
1 key; boxwood with silver key and ivory rings; 603 mm. Bought from W. Hayes, London, 24 Aug. 1933.
1190. FLUTE IN C. *Rudhard, Stuttgart, early 19th cent.*  
6 keys; curly wood with brass keys and black horn rings; 611 mm. Bought from W. Hayes, London, 24 Aug. 1933.
1191. FRENCH FLAGEOLET. *Goodlad & Co., London, 1830-37.*  
4/2, 3 keys; ebony with silver keys and ivory rings and beak; 340 mm. Bought from W. Hayes, London, 24 Aug. 1933.
1192. FLUTE IN C. *W. Milhouse, London, 1788-1828.*  
7 keys; foot to C<sup>1</sup>; 3 upper body joints; ebony with silver keys and ivory rings; 664, 672, and 680 mm. Bought from W. Hayes, London, 24 Aug. 1933.
1193. FLUTE IN E-FLAT. *C. Gerock, London, 1804-37.*  
1 key; boxwood with brass key and ivory rings; 315 mm (without cap). Bought from unknown person, Richmond, England, 25 Aug. 1933.

1194. FLUTE IN A. *J. Hale, London, 1784-1804.*
- 1 key; boxwood with silver key and ivory rings; 722 mm. Bought from Oriental Jewel & Curio Shop, Richmond, England, 25 Aug. 1933.
1195. FLUTE IN C. *Monro & May, London, 1823-48.*
- 4 keys; rosewood with silver keys and ivory rings; 605 mm. Bought from Rudall, Carte & Co., London, 26 Aug. 1933.
1196. PICCOLO IN C. *Clinton & Co., London, c. 1855-71.*
- Clinton's Equisonant system; grenadilla with ebonite head, barrel covered with silver tube and silver fittings; 300 mm. Bought from Rudall, Carte & Co., London, 26 Aug. 1933.
1197. FLUTE IN C. *Cornelius Ward, London, 1842-60.*
- Ward's patent system; foot to B-flat; rosewood with silver fittings; 653 mm. DCM: "Very unusual system of keys. Scale to low B-flat. Body made in one piece to low C, with a short tube connecting with lower end by a cross-tube with two wood plugs (attached to dangling chains) to be inserted in open lever ends, to extend body to low B-flat." Bought from Rudall, Carte & Co., London, 26 Aug. 1933.
1198. FLUTE IN C. *Monzani & Co., London, 1816.*
- 7 keys; foot to C-sharp<sup>1</sup>; 2 head joints; rosewood with silver fittings; 654 and 659 mm. Bought from antique shop in Warwick, England, 9 Sept. 1933.
1199. VERTICAL WHISTLE FLUTE. *Rushworth & Dreaper, Liverpool, 1933.*
- 6/1; bamboo; 497 mm. DCM: "This is a specimen of the simple instruments designed for school-children for their 'handicraft' activities. This was actually made by Mr. H. Courtenay Buckley, in charge of the Handicraft work of Rushworth & Dreaper." Gift of Rushworth & Dreaper, Liverpool, 15 Sept. 1933.
1200. FLUTE IN C. *Key, London, c. 1808-09.*
- 8 keys; rosewood with silver fittings; 668 mm. Bought from Nellie Beach Antiques, Seattle, Washington, 11 Oct. 1933.
1201. FLUTE IN C. *Couesnon & Cie, Paris, early 20th cent.*
- Boehm system with perforated keys, closed G-sharp; silver; 675 mm. Bought from Baxter & Northup Co., Los Angeles, 23 Oct. 1933.
1202. FLUTE IN E-FLAT. *J. C. Haynes & Co., Boston, late 19th cent.*
- 1 key; boxwood with brass key and ivory rings; 499 mm. Bought from N. C. Godsoe, Boston, 25 Oct. 1933.
1203. FLUTE IN G. *Herman Wrede, London, 1837-47.*
- 1 key; pear(?) wood with brass key and ivory rings; 416 mm. Bought from N. C. Godsoe, Boston, 25 Oct. 1933.
1204. FLUTE IN C. *Whiteley, Utica, New York, 1830.*
- 1 key; boxwood with silver key and ivory rings; 598 mm. Bought from William Wagener, Washington, 19 Dec. 1933.
1205. FLUTE IN C. "*V. K. S.,*" place unknown, late 19th cent.
- 13 keys; foot to B; cocus with silver fittings; 710 mm. Gift of Madge N. Minke, Lakewood, Ohio, Jan. 1934.
1206. FLUTE IN C. *Firth, Pond & Co., New York, 1848-65.*
- 4 keys; rosewood with silver keys and ivory rings; 606 mm. Gift of George Mastick, Fairview, Ohio, 12 Jan. 1934.
1207. FLUTE IN C. *P. Bressan, London, early 18th cent.*
- 1 key; 3 joints; boxwood with silver key and ivory rings; 627 mm; one of only two known flutes by Bressan who is better known as a recorder maker. Found in a "Thieves' Market" (secondhand store) in Toluca, Mexico. A short description with detailed measurements is expected to appear in Volume XV of *The Galpin Society Journal*. Bought from Baxter-Northup Co., Los Angeles, 5 Feb. 1933.

1208. FLUTE IN C. *A. Jordan & Co., Liverpool, 1876-82.*  
8 keys (Nicholson holes); rosewood with silver fittings; 655 mm. Bought from J. Cheetham, Birkenhead, England, 28 Feb. 1934.
1209. FLUTE IN C. *Kidder & Hopkins, Troy, New York, c. 1850.*  
1 key; apple(?) wood with ivory rings (key missing); 600 mm. Bought from W. H. Wilkinson, Kansas City, Missouri, 5 March 1934.
1210. FLUTE IN C. *J. Ziegler, Vienna, 1820-47.*  
11 keys; foot to B; ivory with silver fittings; 698 mm. Bought from J. Clayton Boyes, Bushey, England, 12 March 1934.
1211. VERTICAL WHISTLE FLUTE WITH RATTLE. *South American Indian(?) , late 19th cent.*  
2/0; wood whittled and burned into shape; several small balls enclosed for rattle; membrane stretched over lower end; painted blue, yellow, red, and green; 557 mm. Source unknown.
1212. FLUTE IN C. *Couesnon & Cie, Paris, 1878.*  
Boehm system (with several features of F. Barbier's patent), closed G-sharp; foot to B; silver; 690 mm. Bought from Arthur Gemeinhardt, New York, 4 Apr. 1934.
1213. FLUTE IN C. *Anon., United States, early 20th cent.*  
Boehm system modified, open G-sharp, open D-sharp; experimental arrangement of finger touches, clutches, adjusting screws, etc., developed by T. Van Even of New York; foot to C-sharp<sup>1</sup>; 2 joints; grenadilla with silver fittings; 683 mm. Bought from Arthur Gemeinhardt, New York, 4 Apr. 1934.
1214. RECORDER IN D ("SIXTH FLUTE"). *T. Stanesby, London, early 18th cent.*  
7/1; ivory; 304 mm. Bought from W. Howard Head, London, 9 Apr. 1934.
1215. VERTICAL WHISTLE FLUTE. *North American Indian (Sioux), late 19th cent.*  
4/0; animal's leg bone with bells and thimble attached; 140 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 7 May 1934.
1216. FLUTE IN C. *Wylde, London, 1835-36.*  
8 keys (Nicholson holes); rosewood with silver fittings; 662 mm. Bought from J. Cheetham, Birkenhead, England, 12 May 1934.
1217. FLUTE IN C. *Anon., United States, early 20th cent.*  
6/0; maple(?); "crude handicraft somewhat like Praetorius picture"; 548 mm. Bought from V. G. Egger, Middleboro, Mass., 7 June 1934.
1218. WALKING STICK FLUTE IN C. *Anon., early 19th cent.*  
4 keys; light colored wood body and keys with ivory cap and brass tip; 925 mm. Bought from Boston Antique Shop, Boston, 17 June 1934.
1219. FLUTE IN C. *Herman Wrede, London, 1814-26.*  
1 key; pear(?) wood with silver key and ivory rings; 603 mm. Bought from Boston Antique Shop, Boston, 22 June 1934.
1220. FLUTE IN C. *Firth, Pond & Co., New York, 1848-65.*  
1 key; rosewood with silver key and ivory rings; 608 mm. Bought from Whitlock's Inc., New Haven, Connecticut, 25 June 1934.
1221. FLUTE IN E-FLAT. *Sautermeister, Lyon, 1809-30.*  
1 key; boxwood with brass key and ivory rings; 523 mm. Bought from Whitlock's Inc., New Haven, Connecticut, 25 June 1934.
1222. PICCOLO IN C. *Monzani [ & Hill? ], London, 1820-29.*  
4 keys; grenadilla with ivory head and silver fittings; 326 mm. DCM: "Apparently the present keys are a replacement; formerly had flat square flaps;

places have been filed, etc., perhaps had wood lugs, as body seems to have been refinished. Perhaps had wood head, no slide." Source unknown.

1223. FLUTE IN C. *Anon., mid-19th cent.*

10 keys; foot to B; rosewood(?) with silver fittings; 706 mm. Gift of Pierre Hans, Brussels, 1930.

1224. WHISTLE. *Anon., late 19th cent.*

Crudely made from a piece of an animal's tooth or tusk; 83 mm. Bought from William Powell, Birmingham, England, April 1931.

1225. FLUTE IN C. *A. Hopkins, Litchfield, Connecticut, c. 1830.*

4 keys; boxwood with silver keys and ivory rings; 609 mm. Gift of Caroline Osborn, Cleveland, 4 Aug. 1934.

1226. FLUTE IN C. *Potter, London, early 19th cent.*

4 keys; rosewood with silver keys and ivory rings; 601 mm. Bought from a secondhand store at 203½ York Street, Toronto, 24 Aug. 1934.

1227. FLUTE IN C. *Firth, Hall & Pond, New York, 1833-48.*

1 key; pear(?) wood with brass fittings; 605 mm. Bought from W. C. Fisher, Shelby, Ohio, 22 Sept. 1934.

1228. VERTICAL WHISTLE FLUTE. *North American Indian (Yuman, California), late 19th cent.*

3/0; bamboo decorated all over with geometric incised designs (stained brown and blue); 488 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 30 Sept. 1934.

1229. FLUTE IN C. *Anon., mid-19th cent.*

8 keys; rosewood with silver fittings; 670 mm. Bought from Whitlock's Inc., New Haven, Connecticut, 28 Oct. 1934.

1230. FLUTE IN C. *Card & Co., London, 1861-76.*

9 keys, 2 rings (Card's patent system); rosewood with silver fittings; 655 mm. DCM: "With unique slide moved by rack and pinion, half way between

barrel and embouchure; all in silver." Bought from William Moore, Claremont, West Australia, 24 Nov. 1934.

1231. FLUTE IN C. *Anthony, Philadelphia, 1794-1830.*

5 keys; 3 upper body joints; ebony with silver fittings; foot to C-sharp<sup>3</sup>; 560, 575, and 587 mm. Bought from James Denning Price, West Hartford, Connecticut, 6 Dec. 1934.

1232. WALKING STICK FLAGEOLET. *Anon., mid-19th cent.*

7/1, 1 key; wood stained black with brass key and tip; 827 mm. Bought from James D. Price, West Hartford, Connecticut, 6 Dec. 1934.

1233. FLUTE IN C. *Schuchart, London, c. 1730.*

1 key; ivory with silver key; 3 upper body joints; 604, 612, and 642 mm. Bought from W. Howard Head, London, 7 Jan. 1935.

1234. FLUTE IN C. *C. Gerock, London, 1804-21.*

6 keys; foot to C<sup>1</sup>; ebony with silver keys and ivory rings; 675 mm. Exhibited at the Crystal Palace Exhibition, London, 1900 (p. 19, no. 59). Bought from the Desirée Ellinger Collection (Rudall, Carte & Co.), London, 7 Jan. 1935.

1235. FLUTE IN C. *Claude Laurent, Paris, 1812.*

6 and 8 keys; foot joints to D<sup>1</sup> and C<sup>1</sup>; clear fluted glass with silver fittings; 606 and 660 mm. Exhibited at the Royal Military Exhibition, London, 1890 (p. 36, no. 71), Crystal Palace Exhibition, London, 1900 (p. 19, no. 58) and Music Loan Exhibition, London, 1904 (p. 187). C foot was added in 1935. Bought from the Desirée Ellinger Collection (Rudall, Carte & Co.), London, 7 Jan. 1935.

1236. FLUTE IN C. *Rudall & Rose, London, c. 1850-54.*

Boehm system, open G-sharp; silver; 650 mm. Flute has rack and pinion tuning adjustment on the head joint. Flute is marked "Th. Boehm/München/Rudall & Rose/Patentees/Southampton Gt Strand/London." DCM: "It looks like Boehm's own workmanship, but prob-

ably is a 'copy' by R & R. Cannot identify it in Boehm's account book." Bought from the Desirée Ellinger Collection (Rudall, Carte & Co.), London, 7 Jan. 1935.

1237. FLUTE IN C. *Th. Boehm, Munich, 1848.*

Boehm system, open G-sharp; silver; 706 mm. Boehm's No. 14; sold to Richard Carte 8 Dec. 1848. Illus. (Plate XI) Girard's *La Flûte*, 1953. Bought from the Desirée Ellinger Collection (Rudall, Carte & Co.), London, 7 Jan. 1935. (See illustration.)

1238. FLUTE IN C. *Burghley, Camden Town, (London), c. 1845.*

7 keys plus 4 covered finger holes (Burghley's experimental system); mahogany with black wood keys and ivory rings; 1212 mm. Bought from the Desirée Ellinger Collection (Rudall, Carte & Co.), London, 7 Jan. 1935.

1239. FLUTE IN C. *Wigley & McGregor, London, c. 1810.*

4 keys plus 4 keys for reaching finger holes (British Patent No. 3349, McGregor, 1810); foot to D; boxwood with brass keys and U-tube and ivory rings; 890 mm. Exhibited at the Royal Military Exhibition, London, 1890 (p. 36, no. 70 with illus.), Crystal Palace Exhibition, London, 1900, p. 20, no. 95) and Music Loan Exhibition, London, 1904 (p. 189). Bought from the Desirée Ellinger Collection (Rudall, Carte & Co.), London, 7 Jan. 1938.

1240. TENOR RECORDER IN C (FLÛTE À NEUF TROUS). *Anon., Germany, c. 1580.*

8 (extra hole to be plugged)/1; reddish brown wood; 630 mm. Illus. and described (p. 165) Welch's *Six Lectures*, 1911. Exhibited at the Royal Military Exhibition, London, 1890 (p. 10, no. 11), Crystal Palace Exhibition, London, 1900 (p. 17, no. 7), and Music Loan Exhibition, London, 1904 (p. 183). Bought from the Desirée Ellinger Collection (Rudall, Carte & Co.), London, 7 Jan. 1935. (See illustration.)

1241. NOSE FLUTE. *East Indies(?)*, late 19th cent.

2 pairs of diametrically opposed holes with a blow hole at each end; bamboo

with holes burned in; 585 mm. Bought from the Desirée Ellinger Collection (Rudall, Carte & Co.), London, 7 Jan. 1935.

1242. VERTICAL WHISTLE FLUTE. *Source unknown.*

5/0; wood with incised rings and small circles; 958 mm. Bought from the Desirée Ellinger Collection (Rudall, Carte & Co.), London, 7 Jan. 1935.

1243. VERTICAL WHISTLE FLUTE. *Source unknown.*

5/0; bamboo with 2 twigs; holes burned in; 770 mm. Bought from the Desirée Ellinger Collection (Rudall, Carte & Co.), London, 7 Jan. 1935.

1244. FLUTE(?) (BODY AND FOOT ONLY). *Anon., late 19th cent.(?)*.

18 holes in one row all covered with keys; 8 keys directly pressed by fingers and 10 keys operated by elaborate system of rods and "fingers"; cylindrical bore; cocus or rosewood with silver fittings; held vertically because it has thumb supports; 454 mm. Bought from the Desirée Ellinger Collection (Rudall, Carte & Co.), London, 7 Jan. 1935.

1245. FIFE IN A-FLAT. *Anon., 19th cent.*

6/2; wood with heavy coat of black varnish; wound with string; has been greatly altered: holes, insets at holes, thumb holes added, heavy coating of varnish, wound with string, etc.; 382 mm. Bought from Thomas M. Fagan, Portland, Maine, 10 Jan. 1935.

1246. FIFE IN B-FLAT. *Crosby, Boston, 1836-74.*

6/1; wood stained reddish brown with silver ferrules; 434 mm. Bought from Thomas M. Fagan, Portland, Maine, 10 Jan. 1935.

1247. FLUTE IN C. *Klemm, Philadelphia, c. 1825.*

1 key; boxwood(?) with silver key and ivory rings; 608 mm. Bought from Mrs. Jessie Poole Austin, Smith's Cove, Nova Scotia, 23 Feb. 1935.



1248. FLUTE IN C. *A. G. Badger & Co., New York, 1860-68.*

Boehm system, Dorus G-sharp; rosewood with silver band at embouchure and silver fittings; 669 mm. Bought from Baxter-Northup Co., Los Angeles, 2 Apr. 1935.

1249. CROSS FLUTE. *Quibocolo, Congo, 1934.*

6/0; natural wood; 380 mm. Hugh Tracey: "Not true folk instrument—6 holes non-African." Gift of Albert Riemenschneider, Cleveland, 3 Apr. 1935.

1250. FLUTE IN C(?). *Maurice Duxbury, Cleveland, 1935.*

6/0; 2 joints; wood; 642 mm. Replica of a transverse flute from measurements of the figure in Praetorius' *Syntagma II*, Plate IX, g. Gift of Maurice Duxbury, Cleveland, 4 Apr. 1935.

1251. FLUTE IN C. *Firth, Pond & Co., New York, 1848-65.*

8 keys; rosewood with silver fittings; 660 mm. Gift of Clayton Lindsay, Washington, 25 Apr. 1935.

1252. END-BLOWN FLUTE. *North American Indian (Yuki, Round Valley, California), 1929.*

4/0; elder wood; 257 mm. Gift of Helen H. Roberts, New Haven, Connecticut, 9 May 1935.

1253. SOPRANO RECORDER IN A. *Bärenreiter, Kassel, 1935.*

7/1; cocus with silver ring; 391 mm. Bought from Helmuth G. Arendt, Quantico, Virginia, 13 May 1935.

1254. ALTO RECORDER IN E. *Bärenreiter, Kassel, 1935.*

7/1; cocus with silver rings; 535 mm. Bought from Helmuth G. Arendt, Quantico, Virginia, 13 May 1935. (See illustration.)

1255. TENOR RECORDER IN A. *Bärenreiter, Kassel, 1935.*

6/1, 1 key; maple with silver fittings; 757 mm. Bought from Helmuth G. Arendt, Quantico, Virginia, 13 May 1935.

1256. FIFE IN A-FLAT. *Hollings, London, 1874-88.*

1 key; light yellow wood with brass fittings; 400 mm. Bought from Charles Foye, Roxbury, Mass., 10 June 1935.

1257. RECORDER IN D ("SIXTH FLUTE"). *W. Beukers, Amsterdam(?), c. 1750.*

7/1; ivory; 307 mm. Bought from Walter J. Ford, Upper Darby, Pennsylvania, 22 June 1935. (See illustration.)

1258. FLUTE IN LOW C. *Rudall, Carte & Co., London, 1933.*

Boehm system, open G-sharp; head bent at angle of 63 degrees; double-U crook on upper body below slide joint; silver; 1216 mm; illus. (Plate xxvii) Girard's *La Flûte*, 1953. Bought from Rudall, Carte & Co., London, 29 Aug. 1935.

1259. SOPRANINO RECORDER IN F. *Anon., 18th cent.*

7/1; ivory engraved with lion, deer, horse, birds, snake, double-flute player, geometrical rings; spiral grapevine the entire length; 249 mm. Bought from Rudall, Carte & Co., London, 29 Aug. 1935.

1260. FLUTE IN C. *Cornelius Ward, London, mid-19th cent.*

10 keys, 5 rings (Ward's patent system); 2 joints; silver with engraved lip plate and thumb rests; 690 mm. DCM: "Made for some important person!" Bought from Rudall, Carte & Co., London, 29 Aug. 1935.

1261. FLUTE IN C. *Whitaker & Co., London, 1819.*

7 keys; foot to C<sup>1</sup>; ivory with silver key; 667 mm. DCM: "Head joint seems to be of different make." Bought from Rudall, Carte & Co., London, 29 Aug. 1935.

1262. ALTO RECORDER IN D. *Cahusac, London, 1755-98.*

7/1; apple or pear wood with ivory rings and beak; 625 mm. Bought from Rudall, Carte & Co., London, 29 Aug. 1935.

1263. FLUTE IN C. *Anon., early 19th cent.*

1 key; wood stained(?) reddish brown (fluted entire length) with brass key and ivory and horn rings; ivory studs for finger guides at holes; 600 mm. Bought from W. E. Hill & Sons, London, 2 Sept. 1935.

1264. FLUTE IN C. *Thomas Saxton, Nottingham, c. 1793-99.*

1 key; ivory with silver key; very small embouchure; 612 mm. Bought from W. E. Hill & Sons, London, 2 Sept. 1935.

1265. FLUTE IN C. *T. Prowse, London, c. 1835.*

7 keys ("C. Nicholson's Improved"); foot to C<sup>1</sup>; rosewood with silver lip plate, silver keys, and rings with silver on the outer edges and engraved gold in the center; 658 mm. "Presented to/Mr. Nicholson/by/Thos. Prowse" engraved on lip plate. Bought from F. G. Bridges, London, 10 Sept. 1935.

1266. TABOR PIPE. *Cahusac, London, 1800-05.*

2/1; ivory; 306 mm. Bought from W. Hayes, London, 11 Sept. 1935.

1267. FLUTE IN A. *Hirschstein, Leipzig, mid-18th cent.*

1 key; ivory with silver key; 639 mm. Bought from W. Hayes, London, 11 Sept. 1935.

1268. FLUTE IN C. *Mason, London, c. 1780.*

1 key; grenadilla(?) with brass key and ivory rings; 604 mm. Bought from W. Hayes, London, 11 Sept. 1935.

1269. FLUTE IN C. *Brown, place unknown, mid-18th cent.*

1 key; ivory with silver key; 621 mm. Bought from W. Hayes, London, 11 Sept. 1935.

1270. FLUTE IN C. *Button & Co., London, c. 1814-19.*

4 keys; curly wood with silver keys and ivory rings; 608 mm. DCM: "Probably made by Potter." Bought from W. Hayes, London, 11 Sept. 1935.

1271. PICCOLO IN E-FLAT. *T. E. Purdy, Late Clementi & Co., London, 1834-62.*

1 key; boxwood with brass key and ivory rings; 291 mm. Bought from W. Hayes, London, 11 Sept. 1935.

1272. FLUTE IN C. *Longman & Broderip, London, 1779-98.*

1 key; ivory with silver fittings; 608 mm. Bought from William Powell, Birmingham, England, July-Sept. 1935.

1273. FLUTE IN C. *Willis & Goodlad, London, 1825-34.*

8 keys; rosewood with silver fittings; 660 mm. Bought from W. Askew Gent, Peterborough, England, 25 Nov. 1935.

1274. FLUTE IN C. *Graves & Co., Winchester, New Hampshire, 1852-63.*

1 key; apple or pear wood with brass key and ivory rings; 614 mm. Bought from C. A. Tagliere, Los Angeles, 30 Nov. 1935.

1275. FLUTE IN C. *Paine & Hopkins, London, c. 1821-36.*

9 keys; foot to B; rosewood with silver lip plate and silver fittings; 697 mm. "C. N. Weiss's Improved" also stamped on flute. Bought from Mrs. W. C. Bums, Rochester, New York, 2 Dec. 1935.

1276. FLUTE IN C. *Greve, Mannheim, c. 1830.*

5 keys; ebony with silver keys and ivory rings; 3 upper body joints; 616, 618, and 623 mm. Flute has one interchangeable B-flat key for all 3 middle joints. Bought from W. Hayes, London, Jan. 1936.

1277. FLUTE IN C. *Bacon & Hart, Philadelphia, 1818-32.*

4 keys; boxwood with silver keys and ivory rings; with a register; 609 mm. Bought from W. A. Butterfield, Boston, 30 Jan. 1936.

1278. FLUTE IN C. *Christensen & Co., Boston, 1930.*

Boehm system, closed G-sharp; silver; 666 mm. Bought from Wm. S. Haynes Co., Boston, 31 Jan. 1936.

1279. FLUTE IN C. *Wm. S. Haynes Co., Boston, 1935.*

Boehm system with perforated keys, closed G-sharp; silver; 673 mm. Made especially for this collection. Bought from Wm. S. Haynes Co., Boston, 31 Jan. 1936.

1280. PICCOLO IN C. *Wm. S. Haynes Co., Boston, 1935.*

Boehm system, closed G-sharp; silver; 314 mm. Made especially for this collection. Bought from Wm. S. Haynes Co., Boston, 31 Jan. 1936.

1281. FLUTE IN E. *C. Gerock, London, 1821-31.*

1 key; boxwood with brass key and ivory rings; 471 mm. Bought from Marion Holt, Lexington, Mass., 10 March 1936.

1282. FLUTE IN C. *Pond & Co., Albany, New York, c. 1832.*

1 key; pear or apple wood with brass key; 604 mm. Belonged to William Garretson (1801-1872), prominent politician. Bought from Emily R. Plummer, Point Loma, California, 11 March 1936.

1283. FLUTE IN C. *Proser, London, 1777-95.*

1 key; boxwood with brass key; 605 mm. Bought from Whitlock's Inc., New Haven, Connecticut, 6 May 1936.

1284. FLUTE IN C. *Clinton & Co., London, c. 1863.*

Clinton's Equisonant system; silver; 652 mm. Given to Gibbs by William Clinton, a son of John Clinton (the maker) who was an actor using the stage name of William Herbert. Gift of William R. Gibbs, Boston, 5 May 1936.

1285. FLUTE IN C. *Dale, Cockerill & Co., London, 1833-37.*

8 keys; grenadilla with silver fittings; 658 mm. Bought from Mary N. Warburton, Providence, Rhode Island, 22 May 1936.

1286. FLUTE IN C. *E. G. Williams, London, c. 1820.*

1 key; apple or pear wood with ivory rings (key missing); 593 mm (without cap). Bought from David Ussher, Cleveland, 26 May 1936.

1287. FLUTE (FOR HARMONIC DEMONSTRATION). *Wm. S. Haynes Co., Boston, 1936.*

2 keys (foot C and C-sharp keys plus D-sharp touch piece); lowest pitch C<sup>1</sup>; 2 joints; silver; 677 mm. DCM: "Designed for lecture demonstrations on harmonic tones and complex quality due to overtones (overblowing)." Made to order for DCM. Bought from Wm. S. Haynes Co., Boston, 16 June 1936.

1288-A. SAXETTE (VERTICAL WHISTLE FLUTE). *E. J. Fitchhorn, Delaware, Ohio, 1936.*

6/0; nickel-plated; 397 mm. Gift of Wm. S. Haynes Co., Boston, 30 June 1936.

1288-B. SAXETTE (VERTICAL WHISTLE FLUTE). *E. J. Fitchhorn, Delaware, Ohio, 1936.*

6/0; nickel-plated with bakelite mouth-piece; 372 mm. Gift of Wm. S. Haynes Co., Boston, 30 June 1936.

1289. FLUTE IN C. *George Rudall ("Willis Fecit"), London, c. 1820.*

7 keys; foot to C<sup>1</sup>; satinwood(?) with silver fittings; 653 mm. Bought from Objets d'Art, Brighton, England, 15 July 1936.

1290. FLUTE IN C. "*Js. Wood, Late I. Hale,*" *London, 1799-1808.*

5 keys; foot to C-sharp<sup>1</sup>; boxwood with silver keys and ivory rings; 633 mm. Bought from William Hayes, London, 12 Aug. 1936.

1291. FLUTE IN C. *Norman, London, c. 1820.*

7 keys; foot to C<sup>1</sup>; wood stained brown with brass keys and ivory rings; 688 mm. Bought from William Hayes, London, 12 Aug. 1936.

1292-A. TABOR PIPE. *Anon., early 19th cent.*

2/1; boxwood with ivory rings; 274 mm. Bought from W. Howard Head, London, 18 Aug. 1936.

1292-B. TABOR. *Anon., early 19th cent.*

Heads of yellow skin laced with string; 2 sticks with wooden heads (one covered

with rawhide); 256 mm (outside diameter). Bought from W. Howard Head, London, 18 Aug. 1936.

1293. FLUTE IN C. *Faveryear, London, 1806-12.*

6 keys; foot to C<sup>1</sup>; satinwood(?) with silver keys and ivory rings; 673 mm. Bought from A. Pearl Cross, London, 24 Aug. 1936.

1294. FLUTE IN C. *J. Tietjen, London, c. 1800.*

1 key; boxwood with brass key; 637 mm. Bought from J. Cheetham, Prestatyn, North Wales, 23 Sept. 1936.

1295-A. MELODY FLUTE (CROSS FLUTE WITH WHISTLE MOUTHPIECE. *Melody Flute Co., Laurel, Maryland, c. 1935.*

6/0; nickel-plated brass; 393 mm. Gift of Walter D. Lanahan, Laurel, Maryland, 3 Oct. 1936.

1295-B. MELODY FLUTE (CROSS FLUTE). *Melody Flute Co., Laurel, Maryland, c. 1935.*

6/0; nickel-plated brass; raised embouchure plate; 393 mm. Gift of Walter D. Lanahan, Laurel, Maryland, 3 Oct. 1936.

1296. FLUTE IN C. *Piering, Berlin, early 19th cent.*

6 keys; boxwood(?) with brass keys and ivory rings; 617 mm. Bought from Mrs. Edward W. Habermaas, Cincinnati, Ohio, 30 Oct. 1936.

1297. NOSE FLUTE. *Hawaiian Islands, 1936.*

2/0; natural bamboo closed by knot at top; 286 mm. Gift of Marideen Visscher, Cleveland, 14 Nov. 1936.

1298. END-BLOWN PIPE. *Rumania (?), late 19th cent.*

6/0; natural wood; 324 mm. Gift of G. Meriggioli, Seattle, Washington, 1 Dec. 1936.

1299. END-BLOWN PIPE. *Rumania (?), late 19th cent.*

6/0; natural wood; 694 mm. Gift of G. Meriggioli, Seattle, Washington, 1 Dec. 1936.

1300. FLUTE IN C. *P. J. Tanger, Cologne, 1889.*

6 keys; stained wood with brass head joint (wood cylinder at embouchure) and brass fittings; 492 mm; with Wünnenberg's patent head for vertical holding (British Patent No. 11,171, Wünnenberg, 1889). Bought from Franklin L. Tavernier, Cleveland, 21 Dec. 1936.

1301. WHISTLE. *North American Indian (Chippewa), late 19th cent.*

0/1 (plugged); whistle at each end of instrument; large whistle end: birch with bark; body and small whistle end: soft wood with decoration (bird and Indian) burned in; 487 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 5 Jan. 1937.

1302. ENGLISH FLAGEOLET. *Wright, London, c. 1840.*

7/1, 1 key; boxwood with brass key and ivory rings and studs; 370 mm (without beak). Bought from William Powell, Birmingham, England, 25 Jan. 1937.

1303. FLUTE IN C. *H. N. White Co., Cleveland, 25 June 1936.*

Boehm system, closed G-sharp; silver; 675 mm; "King" model. "First Flute made by/The H. N. White Co./Cleveland-O./June 25-1936/Presented to/Dayton C. Miller D.Sc., LL.D." engraved on head joint. Gift of H. N. White Co., Cleveland, 1 March 1937.

1304. FLUTE IN C. *A. R. Jollie, New York, c. 1837.*

9 keys; foot to B; ivory with silver keys; 677 mm. "First Premium/American Institute/1837" engraved on barrel joint. Bought from W. Howard Head, London, 1 March 1937.

1305. WHISTLE. *Anon., late 19th cent.*

1/0; pitches D<sup>2</sup> and C<sup>2</sup>; bird of light brown Staffordshire pottery; height 114 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 3 Apr. 1937.

1306. FLUTE IN C. *R. Weekes, Plymouth, England, mid-19th cent.*

8 keys; rosewood with silver band at embouchure and silver fittings; 653 mm. DCM: "head and barrel probably not original . . ." Bought from N. Gabriel, New York, 3 Apr. 1937.

1307. FLUTE IN C. *Christiani, Amsterdam, c. 1822.*  
4 keys; boxwood with silver fittings; 604 mm. Bought from Max Pinette, Brussels, 2 July 1937.
1308. FLUTE IN C. *Bacon, Weygandt & Co., Philadelphia, 1833-43.*  
8 keys; rosewood with silver fittings; 673 mm. "Cuddy's Improved" stamped on head. Bought from Herman C. Rake-mann, Washington, 5 July 1937.
1309. FLUTE IN C. *G. Schuster, Neukirchen, c. 1840.*  
8 keys; satinwood with silver keys and ivory rings; 665 mm. Bought from Hugh Miller, London, 16 July 1937.
1310. FLUTE IN C. *L. Drouet, London, 1820-21.*  
8 keys; ivory (covered with dark varnish) with silver fittings; 675 mm. Silver plate on barrel: "No Flute is genuine that/is not bought at Mr L Drouets/Manufactory/No 358, Oxford St London/& accompanied by a certificate/under his hand." Bought from Puttick & Simpson, London, 21 July 1937.
1311. FLUTE IN C. *Claude Laurent, Paris, 1811.*  
6 or 8 keys; foot joints to D<sup>1</sup> and C<sup>1</sup>; clear fluted glass with silver fittings; 677 mm. (with C foot). Coat of arms of Emperor Franz I of Austria engraved on head. Bought from Rudall, Carte & Co., London, 7 Aug. 1937.
1312. PICCOLO IN C. *Rudall, Rose, Carte & Co., London, 1855-71.*  
6 keys plus 3 covered finger holes and 3 rings; rosewood with silver fittings; 316 mm. Bought from H. V. Scott, London, 13 Aug. 1937.
1313. FLUTE IN C. *Hill, Late Monzani & Co., London, 1836-45.*  
12 keys; foot to B-flat; rosewood with silver fittings; 747 mm. Bought from H. V. Scott, London, 18 Aug. 1937.
1314. FLUTE IN E-FLAT. *Metzler, London, c. 1788-1800.*  
1 key; boxwood or satinwood with brass key; 507 mm. Bought from H. V. Scott, London, 18 Aug. 1937.
1315. FIFE IN D. *H. Meunier & Cie, Paris, 1930.*  
6/1, 1 key; wood stained black with silver fittings; 355 mm. Bought from Au Diapason, Paris, 31 Aug. 1937.
1316. VERTICAL WHISTLE FLUTE. *IMT (l'Instrument de Musique pour Tous), Paris, 1937.*  
6/0 (unequal diameter and spacing); nickel-plated tube with bakelite mouth-piece; screw ring below head for tuning; 316 mm. Bought from Pierre Schneider, Paris, 31 Aug. 1937.
1317. SOPRANO RECORDER IN C. *R. L. & Co., Germany, early 20th cent.*  
7/1; cocus with silver ferrule; 326 mm. Bought from Pierre Schneider, Paris, 31 Aug. 1937.
1318. FLUTE IN C. *Wafford, London, c. 1780.*  
4 keys; boxwood with silver keys and ivory rings; 600 mm. Bought from F. Taylor, London, 10 Sept. 1937.
1319. FLUTE IN C. *D'Almaine & Co., London, c. 1835.*  
8 keys; rosewood with silver fittings; 660 mm. Gift of Mrs. H. H. Turner, Oxford, England, 15 Sept. 1937.
1320. FIFE IN B. *Anon., London, mid-19th cent.*  
1 key; rosewood with silver fittings; 2 joints; 375 mm. Gift of Mrs. H. H. Turner, Oxford, England, 15 Sept. 1937.
1321. TENOR RECORDER IN C. *Carlo, Palanka, now in Yugoslavia, c. 1775.*  
7/1; reddish brown wood; 610 mm. Bought from Alec Hodsdon, Lavenham, Surrey, England, 15 Sept. 1937.

1322. WHISTLE. *Anon., late 19th cent.*

Reddish brown terra cotta girl (standing); height 59 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 30 Sept. 1937.

1323. WHISTLE. *Anon., late 19th cent.*

Chinese man on stomach with head raised upward made of white china with red, blue, and black markings; 35 x 75 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 16 Nov. 1937.

1324. WHISTLE (WITHOUT FLUE). *Anon., late 19th cent.*

White china (with colored picture "The Babes in the Wood") mug with bird (whistle) perched on the handle; height 77 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 7 Oct. 1937.

1325. FLUTE IN C. *Anon., early 19th cent.*

1 key; boxwood with silver key and ivory rings; 630 mm. Bought from Antiqua, Amsterdam, 13 Oct. 1937.

1326. FIFE in C. *Anon., 19th cent.*

Maple(?) varnished black with brass tips; 368 mm. Gift of Professor R. S. Burington, Cleveland, 16 Oct. 1937.

1327. WHISTLE. *Anon., late 19th cent.*

Black and white glazed pottery cat's head with green eyes and red mouth; height 60 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 4 Nov. 1937.

1328. VERTICAL WHISTLE FLUTE. *Lora Rose, Cleveland, c. 1937.*

6/1; varnished bamboo with cork fipple; 238 mm. Gift of Lora Rose, Cleveland, 7 Nov. 1937.

1329. WHISTLE. *Anon., late 19th cent.*

Dark brown glazed earthenware squirrel sitting up and cracking nut; height 90 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 16 Nov. 1937.

1330. WHISTLE. *Anon., late 19th cent.*

Monkey with tall hat of unglazed earthenware with brown, green, red, and black markings; height 92 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 16 Nov. 1937.

1331. WHISTLE. *Anon., late 19th cent.*

White swan of unglazed Parian porcelain; 53 x 44 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 16 Nov. 1937.

1332. FLUTE IN C. *Benjamin & Munger, New Haven, Connecticut, 19th cent.*

8 keys; rosewood with ivory head and silver fittings; 660 mm (without cap). Bought from Boston Antique Shop, Boston, 29 Nov. 1937.

1333. FLUTE IN C. *Rampone, Milan, 1870-97.*

12 keys; foot to B; light brown wood (varnished) with silver fittings; 712 mm. Bought from G. Merigglioli, Milan, 4 Dec. 1937.

1334. FLUTE IN C. *Pietro de Azzi, Padua, 19th cent.*

15 keys; foot to B-flat; grenadilla or ebony with silver fittings; 753 mm. Bought from G. Merigglioli, Milan, 4 Dec. 1937.

1335. FLUTE IN C. *E. Piana, Florence, c. 1875.*

Briccialdi system; foot to B; 2 joints; ebonite with silver fittings; 710 mm. Flute marked "Brizzi e Niccolai/Firenze/E. Piana Fabtte." Bought from G. Merigglioli, Milan, 4 Dec. 1937.

1336. PICCOLO IN C. *E. Piana, Florence, c. 1875.*

Briccialdi system; colored ebonite(?) with silver fittings; 327 mm. Piccolo marked "Brizzi e Niccolai/Firenze/E. Piana Fabtte." Bought from G. Merigglioli, Milan, 4 Dec. 1937.

1337. ENGLISH FLAGEOLET. *Anon., early 19th cent.*

7/1, 1 key; dark wood with silver key, brass ring, and ivory mouthpiece and studs; 340 mm. Gift of Wendell P. Tarbell, Milford, New Hampshire, 7 Jan. 1938.

1338. FLUTE IN A-FLAT. *Metzler, London, early 19th cent.*

1 key; boxwood with brass key and ivory rings; 384 mm. Bought from W. Howard Head, London, 8 Jan. 1938.

1339. TABOR PIPE. *Potter, London, 1771-1800.*

2/1; ivory; 313 mm. Bought from W. Howard Head, London, 8 Jan. 1938.

1340. FLUTE MOUTHPIECE. *W. Wheatstone, London, c. 1813-23.*

Wheatstone's "patent" mouthpiece which slides onto head joint to provide mechanical embouchure; silver-plated copper with ivory mouthpiece; 62 mm. At one time belonged to the English flutist, Robert Sidney Pratten (1824-68). Bought from W. Howard Head, London, 8 Jan. 1938.

1341. FLUTE IN C. *C. Peloubet, New York, 1829-35.*

4 keys; boxwood with silver keys and ivory rings; 602 mm. Bought from Sadie I. Sharron, Pittsfield, Mass., 31 Jan. 1938.

1342. TENOR ALBISIPHON IN F. *Abelardo Albisi, Milan, c. 1913.*

Boehm system, closed G-sharp; foot to small E; silver; flute is held vertically; 815 mm. Especially made for Mascagni's opera *La Parisina* (see also Nos. 232 and 1345). Bought from G. Meriggioli, Milan, 14 Feb. 1938.

1343. FLUTE IN E-FLAT. *J. W. Oberlander, Germany, late 18th cent.*

1 key; ivory with brass key; 530 mm. Bought from W. Howard Head, London, 16 Feb. 1938.

1344. FLUTE IN F. *Abelardo Albisi, Milan, 1910-24.*

Boehm system, closed G-sharp; foot to E<sup>1</sup>; 2 joints; silver; 544 mm. Bought from G. Meriggioli, Milan, 3 March 1938.

1345. FLUTE IN G. *Albisi & Vanotti, Milan, c. 1913.*

Boehm system, closed G-sharp; lowest pitch G<sup>1</sup>; 2 joints; silver; 459 mm. Especially made for Mascagni's opera *La Parisina* (see also Nos. 232 and 1342). Bought from G. Meriggioli, Milan, 3 March 1938.

1346. HALF FLUTE IN C. *Abelardo Albisi, Milan, 1910-24.*

Boehm system; flute consists of that part of a regular flute which is played by the left hand; lowest pitch G<sup>1</sup>; silver with wooden handle for holding the flute with the right hand; 465 mm. Albisi wrote music especially for this flute. Bought from G. Meriggioli, Milan, 3 March 1938.

1347. FLUTE IN C. *J. Ziegler, Vienna, c. 1840.*

17 keys; foot to small G; boxwood with brass keys and ivory rings; 896 mm. Bought from G. Meriggioli, Milan, 3 March 1938.

1348. FLUTE IN C. *Anon., 1803.*

4 keys; ebony with silver keys and ivory rings; head bulges at embouchure; 607 mm. Maker's stamp illegible. Bought from G. Meriggioli, Milan, 3 March 1938.

1349. FIFE IN (?). *W. Crosby, Boston, 1836-74.*

Rosewood with 6 silver bands and silver ferrules at each end; 442 mm. "Henry Donnelly/Fife Major/69th Regt" engraved on upper ferrule; "New York St/V.V./Irish Brigade" engraved on lower ferrule. Bought from Florence M. Prest, Detroit, 7 March 1938.

1350. FLUTE IN C. *Goodlad, London, 1829.*

7 keys; foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 660 mm. Bought from William Powell, Cardiff, Wales, 1 Apr. 1938.

1351. ALTO RECORDER IN F. *Anon., 18th cent.*

7/1; ivory; 507 mm. Bought from W. Howard Head, London, 5 May 1938.

1352. FLUTE IN C. *J. J. Roedel Jun., Bremen, c. 1830.*

10 keys; foot to small B; satinwood with brass keys and ivory rings; 707 mm. Bought from John W. Sheriff, Glen Cove, New York, 21 May 1938.

1353. FLUTE IN C. *C. G. Conn, Elkhart, Indiana, 1896.*
- Boehm system, closed G-sharp; silver with ebonite head (silver lip plate) and gold fittings; 665 mm. Flute is also marked "Howe Model." Bought from A. J. Blencoe, Geneva, Illinois, 7 June 1938.
1354. FLUTE IN C. *Gebrüder Mönning, Markneukirchen, 1937.*
- Boehm system, closed G-sharp; 2 joints; plexiglas with chromium plated fittings; 676 mm. Bought from Baxter Northup Co., Los Angeles, 17 June 1938.
1355. FLUTE IN C. *F. Boie, Göttingen, 1780.*
- 4 keys; 3 upper body joints; ebony with silver keys and ivory rings; 626, 632, and 642 mm. Bought from Herbert G. Laatz, Forest Park, Illinois, 27 June 1938.
1356. FLUTE IN C. *Whitaker & Co., London, 1820.*
- 4 keys; wood with brass fittings; 595 mm (without cap). Bought from Caledonian Market, London, 29 July 1938.
1357. EUNUCH WHISTLE FLUTE. *M. Barr(?), London, 1875-1918.*
- 6/0; rosewood shaped like a gavel; 303 mm. Bought from W. Howard Head, London, 30 July 1938.
1358. EUNUCH WHISTLE FLUTE. *M. Barr, London, 1875-1918.*
- 3/0; 2 joints; rosewood; 130 mm. Gift of W. Howard Head, London, 30 July 1938.
1359. ALTO RECORDER IN F. *Carlo, Palanka, and Castel, place unknown, late 18th cent.*
- 7/1; stained wood with ivory and silver rings and ivory beak; 503 mm. Bought from W. Howard Head, London, 30 July 1938.
1360. SOPRANO RECORDER IN C. *Rudolf Otto, Markneukirchen, 1938.*
- 7/1; wood with silver band; 297 mm. Bought from A. V. Ebbelwhite, London, 5 Aug. 1938.
1361. VERTICAL WHISTLE FLUTE. *Sternberg, Budapest, 19th cent.*
- 6/0 (unequal spacing); light-colored wood; 413 mm. Bought from A. V. Ebbelwhite, London, 5 Aug. 1938.
1362. WHISTLE (PANPIPE STYLE). *Anon., 1938.*
- 8 whistle pipes; 1 piece of white celluloid decorated with figures of Mickey Mouse and other Walt Disney characters; 70-105 mm. Bought from A. V. Ebbelwhite, London, 5 Aug. 1938.
1363. PICCOLO IN C. *George Howarth, London, early 20th cent.*
- Boehm system, open G-sharp; ebonite with silver fittings; 302 mm. Bought from A. V. Ebbelwhite, London, 5 Aug. 1938.
1364. CROSS FLUTE. *Southeast Asia(?), early 20th cent.*
- 6/0; bamboo with 5 bands of incised lines and holes burned in; 322 mm. Bought from a curio shop at the Underground Station, South Kensington, London, 5 Sept. 1938.
1365. VERTICAL WHISTLE FLUTE. *Southeast Asia(?), early 20th cent.*
- 7/1, membrane hole; bamboo decorated with stains; 465 mm. Bought from a curio shop at a station, South Kensington, London, 5 Sept. 1938.
1366. TI (CROSS FLUTE). *China, early 20th cent.*
- 6/0, membrane hole; bamboo decorated with brown stain rings and with holes burned in; 512 mm. Bought from a curio shop at a station, South Kensington, London, 5 Sept. 1938.
1367. FLUTE IN C. *Harris, London, 1779-93(?).*
- 1 key; boxwood with brass key and ivory rings; 600 mm. Gift of J. G. Morley, London, 5 Sept. 1938.
1368. TONETTE (VERTICAL WHISTLE FLUTE). *Chicago Musical Instrument Co., Chicago, 1938.*
- 7/1; 2 joints; black tenite; 191 mm. Bought from Lyon & Healy, Cleveland, 27 Oct. 1938.



1369. NOTCHED FLUTE. *Source unknown.*

7/0; wood with band of red string at each end; 271 mm. Gift of Weston A. Price, Cleveland, 17 Nov. 1938.

1370. WHISTLE. *Anon., early 20th cent.*

Staffordshire pottery boy (with red cap and pants, green jacket) on a white bicycle; 55 x 84 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 19 Nov. 1938.

1371. TONETTE (VERTICAL WHISTLE FLUTE). *Chicago Musical Instrument Co., Chicago, 1938.*

7/1; 2 joints; transparent tenite; 191 mm. Gift of Chicago Musical Instrument Co., Chicago, 28 Nov. 1938.

1372. FLUTE IN C. *Andrew Kauffmann, London, 1823.*

8 keys; ivory with silver fittings; 665 mm. Bought from Henry S. Saunders, Toronto, 19 Oct. 1938.

1373. FLUTE IN C. *Claude Laurent, Paris, 1818.*

6 keys; foot to C<sup>1</sup>; clear fluted glass with silver fittings; 675 mm. Bought from the estate of John T. Shiel, Walkden, England, 31 Dec. 1938.

1374. FLUTE IN C. *John Parker, London, c. 1770-1815.*

1 key; light colored wood with silver fittings; 580 mm (without cap). Bought from Boston Antique Shop, Boston, 2 Feb. 1939.

1375. FLUTE IN E-FLAT. *Anon., early 19th cent.*

1 key; apple(?) wood with brass key and ivory rings; 505 mm. Bought from N. C. Godsoe, Boston, 16 Apr. 1937.

1376. FLUTE IN C. *Mollenhauer, Fulda, mid-19th cent.*

10 keys; rosewood(?) with silver fittings; 655 mm. Silver plate on barrel is engraved "H. Schneider." Source unknown.

1377. FLUTE IN C. *C. Mahillon & Co., London, 1900.*

Boehm system, closed G-sharp, extra lever for low C-sharp for left little finger; silver; 668 mm. Bought from the estate of John T. Shiel, Walkden, England, 10 March 1939.

1378. FLUTE IN C. *H. Grenser, Dresden, 1806-13.*

1 key; boxwood with brass key and horn rings; 614 mm. Gift of Rex Elton Fair, Chicago, 23 Apr. 1939.

1379. CROSS FLUTE. *Batavia, Java, c. 1939.*

6/0; brown colored bamboo with burned on and incised decorations; holes burned in; 412 mm. Bought from Mrs. John G. Spenser, Cleveland, 8 June 1939.

1380. NOSE FLUTE. *Southeast Asia(?), late 19th cent.*

3/1; bamboo stained red with black bands over entire length of instrument; 710 mm. Bought from C. H. Schroeder, Pasadena, California, 28 July 1939.

1381. CUCKOO WHISTLE. *Anon., Bellagio, Italy, 1899.*

Pitches E<sup>2</sup> and C-sharp<sup>2</sup>; wood carved to look like a bird; 145 mm. Bought from C. H. Schroeder, Pasadena, California, 28 July 1939.

1382. WHISTLE. "*H & T,*" *place unknown, early 20th cent.*

Silver; 76 mm. Bought from C. H. Schroeder, Pasadena, California, 28 July 1939.

1383. VERTICAL WHISTLE FLUTE. *North American Indian (Haida, Alaska), late 19th cent.*

6/0; black slate stone carved all over with 3 frogs, eagle's head, leaves, etc.; 468 mm (both ends are broken off). Bought from Braun's Indian Trading Post, Hollywood, California, 28 July 1939. (See illustration.)

1384. FLUTE IN C. *Clementi & Co., London, 1802-21.*

4 keys; boxwood with silver keys and ivory rings; with register; 592 mm. Bought from Sadie I. Huntington, Pittsfield, Mass., 22 Aug. 1939.

1385. FLUTE IN C. *Louis Lot, Paris, c. 1879.*

Boehm system, closed G-sharp, 4 rings; rosewood with silver fittings; 655 mm. DCM: "head seems of different wood and flute may have been cut at joint." Bought from A. Whitehead, New York, 5 June 1939.

1386. "SCOTTY PICCOLO RECORDER" (TOY RECORDER). *Lewis & Scott Mfg. Co., Inc., Plantsville, Connecticut, 1939.*

7/1; black plastic with metal ferrule; 327 mm. Bought from G. Schirmer, Inc., New York, 16 Sept. 1939.

1387. SOPRANO RECORDER IN C. *Johannes Adler, Markneukirchen, 1939.*

6/1, 1 perforated key; pear wood(?) with silver key; 321 mm. Bought from G. Schirmer, Inc., New York, 16 Sept. 1939.

1388. ALTO RECORDER IN F. *Johannes Adler, Markneukirchen, 1939.*

5/1, 2 keys (1 perforated); pear wood(?) with silver keys; 485 mm. Bought from G. Schirmer, Inc., New York, 16 Sept. 1939.

1389. TENOR RECORDER IN C. *Johannes Adler, Markneukirchen, 1939.*

6/1, 1 key; pear wood(?) with silver key; 643 mm. Bought from G. Schirmer, Inc., New York, 16 Sept. 1939.

1390. BASS RECORDER IN F. *Johannes Adler, Markneukirchen, 1939.*

4/1, 3 keys (1 perforated); pear wood(?) with metal keys and crook; 955 mm. Bought from G. Schirmer, Inc., New York, 16 Sept. 1939.

1391. WALKING STICK FLUTE IN C. *Paul Walch, Berchtesgaden, 1850-73.*

1 key; wood with brass key and ferrule; 904 mm. Bought from Sadie I. Huntington, Pittsfield, Mass., 2 Nov. 1939.

1392. PICCOLO IN C. *George Cloos, New York, late 19th cent.*

6 keys; grenadilla with ivory head and silver fittings; 306 mm. Bought from Grace E. Snell, Wellesley, Mass., 9 Nov. 1939.

1393. BIRD WHISTLE. *South American Indian (Amazon jungle), early 20th cent.*

Natural bamboo tube with square embouchure slightly off center; one end closed by natural septum, the other by a plug of grass; loose piece of wood in instrument rattles when blown; 124 mm. Price: "A number of birds can be imitated by the primitives with this device." Gift of Weston A. Price, Cleveland, 14 Nov. 1939. (See illustration.)

1394. WHISTLE. *Anon., early 20th cent.*

Chef of white china; height 73 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 16 Nov. 1939.

1395. WHISTLE. *Anon., early 20th cent.*

Green china frog with black spots; does not have a whistle mouthpiece but is played by blowing across hole in frog's back; 72 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 16 Nov. 1939.

1396. "BUGLE BOY" (WHISTLE FLUTE). *The Tonette Co., Chicago, 1939.*

3/0; tenite in the shape of a bugle with black body and yellow mouthpiece and bell; 135 mm. Sounds E-flat<sup>2</sup>, A-flat<sup>2</sup>, C<sup>3</sup>, and E-flat<sup>3</sup> for regulation bugle calls. Bought from a music store(?) in Columbus, Ohio, 28 Dec. 1939.

1397. "PRIMER CLARINET." *Harry E. O'Brien and Sons, Indianapolis, 1940.*

6/1, 1 key, 1 ring; bakelite with metal fittings; 336 mm. Small size clarinet with regular size mouthpiece and simplified key system for beginning clarinetists. Gift of Harry E. O'Brien & Sons, Indianapolis, 24 Jan. 1940.

1398. FLUTE IN C. *Th. Boehm, Munich, 1849.*

Boehm's early key mechanism, open G-sharp, keys mounted on far side of body; silver with gold lip plate; 630 mm. Boehm's No. 38. Bought from Rudall, Carte & Co., London, 24 Jan. 1940.

1399. PICCO PIPE. *Hack, London, 1842-59.*

2/1; boxwood; 87 mm. Bought from Rudall, Carte & Co., London, 14 Feb. 1940.

1400. FLUTE IN C. *Claude Laurent, Paris, 1815.*

7 keys; foot to C<sup>1</sup>; clear fluted glass with silver fittings; 676 mm. Exhibited at the Music Loan Exhibition, London, 1904 (p. 187). Bought from Rudall, Carte & Co., London, 14 Feb. 1940.

1401. FLUTE IN C. *Brickel, London, c. 1800.*

1 key; boxwood with brass key and ivory rings; 590 mm. Bought from Rudall, Carte & Co., London, 14 Feb. 1940.

1402. FLUTE IN C. *Metzler, London, 1812-21.*

1 key; satinwood with silver key and ivory rings; with a tuning register; 598 mm. Bought from Rudall, Carte & Co., London, 14 Feb. 1940.

1403. FLUTE IN E-FLAT. *Wood & Ivy, London, 1812-21.*

1 key; boxwood(?) with brass key; 498 mm. Bought from Rudall, Carte & Co., London, 14 Feb. 1940.

1404. FLUTE IN C. *Claude Laurent, Paris, 1817.*

6 keys; foot to C<sup>1</sup>; clear fluted glass with silver fittings; low C and C-sharp keys mounted on near side of D-sharp key; 675 mm. Bought from G. Scarth Ltd., London, 28 Feb. 1940.

1405. FLUTE IN C. *Metzler & Co., London, c. 1837-40.*

8 keys (Nicholson holes); rosewood with silver fittings; 653 mm. Bought from Paul Rosen, San Francisco, 27 March 1940.

1406. FLUTE IN C. *Clementi & Co., London, 1802-21.*

6 keys; foot to C<sup>1</sup>; ivory with silver fittings; 665 mm. Bought from Rudall, Carte & Co., London, 8 Apr. 1940.

1407. FLUTE IN C. *Key London, 1808-58.*

6 keys; foot to C-sharp<sup>1</sup>; boxwood with brass keys and ivory rings; 646 mm. Bought from Rudall, Carte & Co., London, 8 Apr. 1940.

1408. FLUTE IN C. *George Rudall, London, 1820-21.*

8 keys; boxwood with silver fittings; 659 mm. Bought from Rudall, Carte & Co., London, 8 Apr. 1940.

1409. FLUTE IN C. *Sprague, London, 1842-82.*

7 keys; foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 664 mm. Bought from Rudall, Carte & Co., London, 8 Apr. 1940.

1410. FLUTE IN A-FLAT. *Rudall & Rose, London, 1824.*

4 keys; cocus with silver fittings; 750 mm. Bought from Rudall, Carte & Co. London, 8 Apr. 1940.

1411. FLUTE IN C. *James Wood, London, 1814.*

7 keys; foot to C<sup>1</sup>; ebony with silver fittings; 665 mm. Flute has tuning slide for each joint and screw cork (British Patent No. 3797, Wood, 1814). Bought from Rudall, Carte & Co., London, 8 Apr. 1940.

1412. FLUTE IN C. *William Hall & Son, New York, 1848-58.*

1 key; boxwood or apple wood with brass key; 615 mm. Bought from R. A. Smith, Memphis, 15 Apr. 1940.

1413. WHISTLE. *Anon., early 20th cent.*

Glazed earthenware frog sitting on a rock; 57 x 52 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 12 June 1940.

1414. FLUTE IN C. *A. G. Badger, New York, 1887.*

Boehm system, open G-sharp (Lax's Model); ebonite with silver fittings; 648 mm. Gift of George Samuel Tucker, Hingham, Mass., 11 July 1940.

1415. FLUTE IN C. *Raymond Howard Willoughby, Connecticut, c. 1900.*

7/2, 1 key (experimental cylindrical flute of original design with properly spaced holes—graduated diameters—variously placed around the body to fit the finger reaches); 1 joint; light wood (key missing); 632 mm. Gift of Raymond R. Willoughby, Riverside, Rhode Island, 13 Aug. 1940.

1416. OCARINA. *Gretsch, Chicago, 1940.*

8/2 (2 of these are sealed); pinkish red plastic; 145 mm. Bought from a music store(?) in Boston, 19 Sept. 1940.

1417. FLUTE IN C. *Adolf Hüttl, Boston, 1867–73.*

9 keys; foot to B; rosewood with ivory head and silver fittings; 700 mm. Bought from Boston Antique Shop, Boston, 18 Oct. 1940.

1418-A. FLUTE IN C. *Anon., 1841.*

11 keys, key between F-sharp and G holes (purpose unknown); foot to B-flat; rosewood with silver fittings; 740 mm. "From Father to Son 1841. John L. Crew. 1842," engraved on band around cap. Bought from Boston Antique Shop, Boston, 18 Oct. 1940.

1418-B. FLUTE IN C. *Anon., early 19th cent.*

4 keys; boxwood with silver keys and ivory rings; 608 mm. Bought from Boston Antique Shop, Boston, 18 Oct. 1940.

1419. FLUTE IN C. *G. N. Munger, New Haven, Connecticut, mid-19th cent.*

5 keys; rosewood with ivory head and silver keys; 610 mm. Bought from Whitlock's, Inc., New Haven, Connecticut, 4 Nov. 1940.

1420. WHISTLE. *Anon., early 20th cent.*

Brown Staffordshire pottery owl; hole in back of owl; instrument sounds 2 pitches, E-flat<sup>2</sup> and F<sup>2</sup>; height 105 mm. Bought from N. E. Carter, Elkhorn, Wisconsin, 17 Apr. 1939.

1421. PICCOLO IN E-FLAT. *A. Bin-yon, London, 1844–50.*

1 key; boxwood with brass key; 295 mm. Bought from Boston Antique Shop, Boston, 4 Dec. 1940.

1422. CLARINET IN C(?). *Astor and Horwood, London, 1815–22.*

5 keys; boxwood with brass keys and ivory rings; 590 mm. Bought from Boston Antique Shop, Boston, 4 Dec. 1940.

1423. PITCH PIPE. *Anon., early 19th cent.*

Mahogany with holly and hemingbone mahogany inlay; 2 joints; range F<sup>1</sup>—A<sup>2</sup> (A=440); marked E—G; 76 x 152 mm. Bought from Boston Antique Shop, Boston, 4 Dec. 1940.

1424. FLUTE IN C. *Firth, Hall & Pond, Litchfield, Connecticut, 1833–47.*

4 keys; boxwood with brass keys and ivory rings; 595 mm. Bought from Whitlock's Inc., New Haven, Connecticut, 16 Dec. 1940.

1425. "SYMPHONET" (VERTICAL WHISTLE FLUTE). *Anon., United States, 1940.*

7/1; 2 joints; black plastic; 303 mm. Bought from Handy-Folio Music Co., Milwaukee, Wisconsin, 31 Dec. 1940.

1426. FLUTE IN C. *Nach H. F. Meyer, Hannover, 1876(?)*.

13 keys; foot to B; grenadilla with ivory head and silver fittings; 700 mm. Gift of Mildred Miller, Oakland, California, 6 Jan. 1941.

1501. FLUTE IN C. *Raymond Howard Willoughby, Connecticut, c. 1900.*

7/2, 1 key (experimental cylindrical flute of original design with properly spaced holes—graduated diameters—variously placed around the body to fit the finger reaches); 1 joint; light wood (key missing); 632 mm. Gift of Raymond R. Willoughby, Riverside, Rhode Island, 13 Aug. 1940.

1502. FLUTE IN C. *Anon., late 19th cent.*

4 keys; cocus with silver fittings; 599 mm. Gift of Beste, place unknown, June 1933.

1503. FLUTE IN C. *A. G. Badger, New York, mid-19th cent.*

Boehm system, Dorus G-sharp; rosewood with silver fittings; 678 mm. Source unknown.

1504. FLUTE IN C. *Stanesby Junior, London, mid-18th cent.*

1 key; ivory with silver key and large silver bands at G and D holes; 613 mm. Source unknown.

1505. FLUTE IN C. *Firth, Hall & Pond, New York, 1833-47.*

8 keys; grenadilla with silver fittings; 657 mm. Bought from Whitlock's, New Haven, Connecticut, June 1937.

1506. FLUTE IN C. *Anon., mid-19th cent.*

8 keys; rosewood(?) with silver fittings; 659 mm. Bought from W. S. Thomas, New York, 3 July 1935.

1507. FLUTE IN C. *Metzler, London, early 19th cent.*

1 key; boxwood with silver key and ivory rings; 598 mm. Bought from William Powell, Birmingham, England, 1 Apr. 1938.

1508. DOUBLE FLAGEOLET. *Bainbridge & Wood, London, 1808-20.*

Right tube: 4/0, 3 keys plus shutter; left tube: 7/1, 2 keys plus shutter; boxwood with silver keys and ivory rings and studs; 370 mm (beak missing). Source unknown.

1509. PICCOLO IN C. *Anon., late 19th cent.*

6 keys; rosewood with silver fittings; 304 mm. Source unknown.

1510. PICCOLO IN C. *Anon., early 19th cent.*

1 key; boxwood(?) with silver fittings; 312 mm. Source unknown.

1511. FENG HUANG HSIAO (NOTCHED FLUTE). *China, early 20th cent.*

5/1, tassel holes; stained bamboo; 601 mm. Gift of W. J. Reed, San Francisco, Sept. 1933.

1512. TI (CROSS FLUTE). *China, early 20th cent.*

6/0, membrane hole, tassel holes; bamboo lacquered black with ivory tips; green, white, and pink design at upper end; 592 mm. Source unknown.

1513. TI (CROSS FLUTE). *China, early 20th cent.*

6/0, membrane hole, tassel holes; bamboo lacquered black with ivory tips; green, white, and pink design at upper end; 592 mm. Source unknown.

1514. TI (CROSS FLUTE). *China, early 20th cent.*

6/0, membrane hole, tassel holes; stained bamboo with ivory tips; 623 mm (upper tip missing). Bought from Schmidt Brothers, Cleveland, Nov. 1931.

1515. FIFE IN B. *Anon., late 19th cent.*

7/0; grenadilla with silver ferrules; 382 mm. Source unknown.

1516. FLUTE IN C. *Anon., late 19th cent.*

8 keys; grenadilla with silver fittings; 671 mm. Gift of Professor R. W. Deering, Cleveland, date unknown.

1517. FLUTE IN C. *Rudall & Rose, London, c. 1827-37.*

8 keys; rosewood with silver fittings; 657 mm. Bought from Mellon, place unknown, Sept. 1937.

1518. FLUTE IN C. *J. Ziegler, Vienna, 1820-47.*

12 keys; foot to B; ebony with ivory head and silver fittings; 714 mm. Gift of Robert J. Shackleton, Louisville, Kentucky, 1933.

1519. SHAKUHACHI (END-BLOWN NOTCHED FLUTE). *Japan, early 20th cent.*

4/1; bamboo lacquered red inside; 606 mm. Source unknown.

1520. SHAKUHACHI (END-BLOWN NOTCHED FLUTE). *Japan, early 20th cent.*

4/1; bamboo lacquered red inside; band of wire lacquered black at middle of instrument; 548 mm. Source unknown.

1521. FENG HUANG HSIAO (NOTCHED FLUTE). *China, early 20th cent.*

5/1; bamboo stained reddish brown with ivory tip at lower end; 540 mm. Source unknown.

1522. FENG HUANG HSIAO (NOTCHED FLUTE). *China, early 20th cent.*

5/1; bamboo stained brown with bird, leaves, and flowers painted on the instrument; ivory tip at lower end; 547 mm. Source unknown.

1523. TI (CROSS FLUTE). *China, early 20th cent.*

6/0, membrane hole, tassel holes; bamboo stained brown with bird, flowers, and leaves painted on the instrument; ivory tips; purple tassel; 656 mm. Source unknown.

1524. TI (CROSS FLUTE). *China, early 20th cent.*

6/0, membrane hole, tassel holes; bamboo stained brown with bird, flowers, and leaves painted on the instrument; ivory tips; 630 mm. Source unknown.

1525. TI (CROSS FLUTE). *China, early 20th cent.*

6/0, membrane hole, tassel holes; natural bamboo covered with 24 windings of silk lacquered black; ivory tips; green tassel; 639 mm. Source unknown.

1526. TI (CROSS FLUTE). *China, early 20th cent.*

6/0, membrane hole, tassel holes; bamboo with 24 windings of silk painted black; ivory tips; blue tassel; 649 mm (upper tip missing). Source unknown.

1527. T'AI P'ING HSIAO (VERTICAL WHISTLE FLUTE). *China, early 20th cent.*

6/0, membrane hole, tassel holes; bamboo stained reddish brown with ivory tips; white, green, and red decorations; red tassel; 432 mm. Source unknown.

1528. T'AI P'ING HSIAO (VERTICAL WHISTLE FLUTE). *China, early 20th cent.*

6/0, membrane hole, tassel holes; bamboo stained reddish brown with ivory

tips; white and green leaves and flowers painted on instrument; green tassel; 413 mm. Source unknown.

1529. TAKE-BUE OR SHI-NO-BUE (CROSS FLUTE). *Japan, early 20th cent.*

7/0; bamboo lacquered red inside with 8 windings of cane around flute; 403 mm. Source unknown.

1530. SEITEKI (CROSS FLUTE). *Japan, early 20th cent.*

6/0, membrane hole; mottled bamboo lacquered red on inside with wood tips and ivory rings; 462 mm. Gift of John T. Shiel, Walkden, England, 5 Dec. 1929.

1531. FLUTE IN C. *Geib, New York, 1818-21.*

1 key; pear wood (?) with brass key and ivory rings; 591 mm. Bought from Norval Stewart, Binghamton, New York, 20 Jan. 1933.

1532. FLUTE IN C. *William Hall & Son, New York, 1848-75.*

8 keys; rosewood with silver fittings; 665 mm. Source unknown.

1533. FLUTE IN C. *E. Baack, New York, 1840-72.*

1 key; pear wood (?) with brass fittings; 604 mm. Bought from Netter's Midwood Farm, Freehold, New Jersey, 24 March 1930.

1534. FLUTE IN C. *G. Astor & Co., London, 1793-1826.*

6 keys; foot to C<sup>1</sup>; boxwood with silver keys and ivory rings; 664 mm (without cap). Bought from George Fenno McDonough, New York, Nov. 1931.

1535. FLUTE IN C. *Anon., early 19th cent.*

4 keys; boxwood with brass keys and ivory rings; 592 mm. Gift of Mrs. S. J. Sharron, Pittsfield, Mass., 31 Jan. 1938.

1536. FLUTE IN C. *Firth, Hall & Pond, New York, 1833-47.*

4 keys; cocus (?) with silver keys and ivory rings; head (unmarked) seems to be of different wood; 594 mm. Source unknown.

1537. FLUTE IN C. *Firth Son & Co., New York, 1865-67.*

1 key; cocus with silver fittings; 591 mm. Source unknown.

1538. FLUTE IN C. *Anon., mid-19th cent.*

6 keys; rosewood with silver fittings; 597 mm (without cap). Gift of A. Weaver, Cleveland, Aug. 1936.

1539. FLUTE IN C. *Anon., United States(?) , mid-19th cent.*

8 keys; grenadilla with silver fittings; 645 mm (without cap). Gift of C. B. Gage, Wilkes-Barre, Pennsylvania, 3 Jan. 1928.

1540. FLUTE IN C. *Anon., late 19th cent.*

6 keys; ebony with silver fittings; 593 mm (without cap). Gift of Whitlock, New Haven, July 1937.

1541. FLUTE IN E-FLAT. *Astor, London, late 18th cent.*

1 key; yellow wood with brass key and ivory rings; 496 mm. Bought from estate of Halah, 4 Oct. 1938.

1542. FLUTE IN C. *Firth, Hall & Pond, New York, 1833-47.*

1 key; apple wood with brass key and ivory rings; 592 mm. Bought from W. H. Wilkinson, Kansas City, Missouri, 28 Feb. 1934.

1543. FLUTE IN C. *Anon., mid-19th cent.*

11 keys; foot to B; grenadilla(?) with ivory head and silver fittings; 708 mm. Source unknown.

1544. PICCOLO IN C. "*G.H.S.,*" *Germany, late 19th cent.*

6 keys; rosewood with ebonite head and silver fittings; 318 mm. Bought from N. C. Godsoe, Boston, 21 May 1938.

1545. PICCOLO IN D-FLAT. *Anon., late 19th cent.*

6 keys; grenadilla with silver fittings; 312 mm. Source unknown, Jan. 1938.

1546. FLUTE IN C. *H. F. Meyer, Hannover, late 19th cent.*

11 keys; foot to B; cocus with ivory head and silver fittings; 768 mm. Gift of J. A. Douglas, Anniston, Alabama, 30 June 1944.

1547. FLUTE IN C. *Anon., late 19th cent.*

8 keys; cocus with ivory head and silver fittings; 714 mm. Source unknown.

1548. FLUTE IN C. *Christensen & Co., Boston, c. 1935.*

Boehm system, open G-sharp; silver; 674 mm. Bought from Mrs. Donald Goodchild, Falls Church, Va., 26 Dec. 1951.

1549. MELODY FLUTE (CROSS FLUTE). *Melody Flute Co., Laurel, Maryland, 1947.*

6/0; nickel-plated with raised lip plate; 393 mm. Gift of Walter D. Lanahan, Laurel, Maryland, 4 Apr. 1947.

1550. MELODY FLUTE (CROSS FLUTE). *Melody Flute Co., Laurel, Maryland, 1947.*

6/0; nickel-plated with raised lip plate; 393 mm. Gift of Walter D. Lanahan, Laurel, Maryland, 4 Apr. 1947.

1551. MELODY FLUTE (SIDE-BLOWN WHISTLE FLUTE). *Melody Flute Co., Laurel, Maryland, 1947.*

6/0; nickel-plated; 355 mm. Gift of Walter D. Lanahan, Laurel, Maryland, 4 Apr. 1947.

1552. FRENCH FLAGEOLET. *Anon., early 19th cent.*

4/2; yellow wood with black horn ring; 192 mm. Source unknown.

1553. PICCOLO IN C. *Anon., late 19th cent.*

6 keys; grenadilla with silver fittings; 305 mm (without cap). Source unknown.

1554. SHAKUHACHI (END-BLOWN NOTCHED FLUTE). *Japan, early 20th cent.*

4/1; bamboo lacquered black inside with black rings; 2 joints; 546 mm. Gift of W. Hans Moennig, Philadelphia, 3 July 1947.

1555. SHAKUHACHI (END-BLOWN NOTCHED FLUTE). *Japan, early 20th cent.*

4/1; bamboo stained light brown and lacquered red inside; 533 mm. Source unknown.

1556. FLUTE IN C. *C. Peloubet, New York, 1829-35.*

8 keys; cocus with ivory head and silver fittings; 660 mm. Source unknown.

1557. FIFE IN B-FLAT. *Anon., late 19th cent.*

6/0; rosewood with silver ferrules; 415 mm. Gift of Armand J. Barron, Los Angeles, 25 July 1947.

1558. FLUTE IN C. *William Hall & Son, New York, 1848-75.*

1 key; boxwood with brass key and ivory rings; 604 mm. Gift of Armand J. Barron, Los Angeles, 25 July 1947.

1559. VERTICAL WHISTLE FLUTE. "L," *Germany, 1945.*

6/0; tin; 295 mm. Source unknown.

1560. WHISTLE (CROSS-BLOWN). *Source unknown.*

Lowest pitch G<sup>1</sup>; white china with peacocks and many colored birds, flowers, and fruit; 523 mm. Source unknown.

1561. CROSS FLUTE. *Source unknown.*

6/0; cane with holes burned in; 376 mm. Gift of Rae Korson, Washington, 7 June 1946.

1562. VERTICAL WHISTLE FLUTE. *Source unknown.*

5/0; cane with holes burned in; 370 mm. Gift of Rae Korson, Washington, 7 June 1946.

1563. CROSS FLUTE. *Source unknown.*

6/0 (very small and unevenly spaced); maroon plastic; very crudely made; 204 mm. Source unknown.

1564. PANPIPES. *Source unknown.*

4 pipes which sound E<sup>2</sup>, F-sharp<sup>2</sup>, G<sup>2</sup>, and A-sharp<sup>2</sup>; bamboo bound with wire and piece of wood; 134-91 mm. Gift of Rae Korson, Washington, 7 June 1946.

1565. PANPIPES. *Source unknown.*

10 pipes; range E-flat<sup>2</sup>-B-flat<sup>2</sup>; bamboo bound with wire and piece of wood; 138-45 mm. Gift of Rae Korson, Washington, 7 June 1946.

1566. CLARINET IN B-FLAT(?). *Berteling, New York, 1849-90.*

13 keys, 2 rings; wood with silver fittings; 670 mm. Source unknown.

1567. CLARINET IN B-FLAT(?) *Eduard Adler, "Grunberg, Schl.," 19th cent.*

12 keys; boxwood with brass fittings; 668 mm. Bought from Schmidt Bros., Cleveland, 6 Nov. 1931.

1568. CLARINET IN B-FLAT (INCOMPLETE). *Cramer, London, early 19th cent.*

7 keys; curly wood with silver keys and ivory rings; 497 mm (bell and mouth-piece missing). Gift of William Powell, Birmingham, England, Nov. 1927.

1569. CLARINET IN A(?). *Anon., 19th cent.*

12 keys; boxwood with brass keys and black horn rings; 665 mm. Bought from Schmidt Bros., Cleveland, 6 Nov. 1931.

1570. FLUTE IN C. *Anon., late 19th cent.*

14 keys; foot to B; ebony with silver fittings; 715 mm. Has an unusual key for right little finger, hole between F and F-sharp; exact purpose unknown. Bought from Philip N. Jenner, an American then stationed in Tokyo, 29 Sept. 1956.

1571. CHI NA (DOUBLE-REED HORN). *China, early 20th cent.*

7/1; redwood; 278 mm. Source unknown.

1572. FLUTE (INCOMPLETE). *Anon., early 19th cent.*

4 keys; boxwood with brass keys and black horn rings; 395 mm (head missing). Gift of Harold Gabrielsky, Hoboken, New Jersey, 30 June 1954.

1573. ZUMMARAH (DOUBLE-PIPE WITH IDIOGLOTTAL REEDS). *Egypt, early 20th cent.*

6/0 (both pipes); bamboo pipes bound with string; 390 mm. Source unknown.



1574. ARGHUL (DOUBLE-PIPE WITH IDIOGLOTTAL REEDS). *Egypt, early 20th cent.*

Right tube: drone; left tube: 6/0; bamboo pipes bound with string; 319 mm (reeds missing). Source unknown.

1575. FIFE IN C. *Anon., late 19th cent.*

6/0; metal with raised finger holes and lip plate; 377 mm. Gift of C. C. Vogenitz, Akron, Ohio, 13 Jan. 1955.

1576. NAY (END-BLOWN FLUTE). *Tunisia, 1959.*

6/1; bamboo with holes burned in; 614 mm. Gift of M. El Mahdi, Tunisia, 27 Nov. 1959.

1577. NAY (END-BLOWN FLUTE). *Tunisia, 1959.*

6/1; light plastic slender body with 8 waists located at even intervals; 616 mm. Gift of M. El Mahdi, Tunisia, 27 Nov. 1959.

1578. FLUTE IN C. *G. N. Munger, New Haven, Connecticut, mid-19th cent.*

8 keys; cocus with ivory head and silver fittings; 662 mm. Gift of Mrs. W. S. Delford, place unknown, Sept. 1943.

1579. SVIRALLA (VERTICAL WHISTLE FLUTE). *Yugoslavia, 1954.*

6/0; varnished blond wood with holes burned in; carved on top side; 309 mm. Gift of Spofford Whiting, New York, 5 Nov. 1954.

1580. DEVOYNITZAS (DOUBLE VERTICAL WHISTLE FLUTE). *Yugoslavia, 1954.*

Right tube: 4/0; left tube: 3/0; varnished blond wood with holes burned in; carved on top side; 342 mm. Gift of Spofford Whiting, New York, 5 Nov. 1954.

1581. DEVOYNITZAS (DOUBLE VERTICAL WHISTLE FLUTE). *Yugoslavia, 1954.*

Right tube: 4/0; left tube: 3/0; varnished blond wood with holes burned in; carved on top side; 322 mm. Gift of Spofford Whiting, New York, 5 Nov. 1954.

1582. FLUTE IN C. *Potter, London, early 19th cent.*

6 keys; foot to C<sup>1</sup>; ebony with silver keys and ivory rings; 663 mm. Source unknown.

1583. PICCOLO in C. *Felix Bour, Paris and Chicago, c. 1890.*

Boehm system, open G-sharp; grena-dilla with silver fittings; 315 mm. Played by the donor from 1890-1944 (in the New York Philharmonic Orchestra 1910-44). Gift of Ernest F. Wagner, Merrick, New York, 28 Nov. 1952.

1584. FLUTE IN C. *Moritz Max Mön-nig, Leipzig, c. 1930.*

Schwedler reform system; ebony with silver head and silver fittings; foot to B; 710 mm. Bought from the estate of Alois J. Schardt, Los Angeles, Aug. 1957.

1585. FLUTE IN C. *Firth, Pond & Co., New York, 1848-55.*

1 key; cocus with silver key and ivory rings; lead whistle mouthpiece attached; 595 mm (without cap). Gift of Mrs. C. W. Shaver, place unknown, 24 Apr. 1947.

1586. "LAWRENCE WELK'S MUSIC MAKER." *Kenner Products Co., Cincinnati, 1956.*

Whistle (panpipe style) with one mouthpiece; cardboard "music discs" with slits to permit air to strike desired pipes are rotated by hand crank; 10 "pipes"; red, blue, and yellow plastic; length of "pipes" 84-51 mm; 10 "music discs" contain such tunes as "London Bridge," "Jingle Bells," etc. Gift of Kenner Products Co., Cincinnati, 1956.

1587. FLUTE IN C. *Anon., early 19th cent.*

9 keys; foot to B; ebony with silver keys and ivory rings; unusual arrangement of low B key; 714 mm. Played by Frederick C. Finkenstaedt (great-grandfather of the donor), a pupil of Furstenuau and a well known German flutist who gave concerts in Mannheim, Freiburg, Paris, Amsterdam, etc. Gift of E. R. Finkenstaedt, Washington, 3 June 1959.

1588. FLUTE IN G. *James S. Wilkins Jr., Munich, 1871-75.*

Boehm system, open G-sharp, Schleif key; silver with wood lip plate; 861 mm. Made in Boehm and Mendler's shop under the direction of Boehm. Bequest of James A. Stewart, Wellsville, New York, 16 Apr. 1960.

1589. FIFE IN C. *Herrouard Père et Fils, Paris, mid-19th cent.*

6/0; boxwood with brass ferrules; 330 mm. Source unknown.

1590. KUAN (DOUBLE-REED PIPE). *China, early 20th cent.*

7/1; bamboo; 197 mm (without reed). Source unknown.

1591. PICCOLO IN C(?). *Camp, London, c. 1838.*

6 keys; grenadilla(?) with silver fittings; 322 mm. Bought from A. J. Blencoe, Geneva, Illinois, 10 Jan. 1961.

1592. FLUTE IN C. *Anon., early 19th cent.*

1 key; boxwood with brass key and ivory rings; 600 mm. Bought from A. J. Blencoe, Geneva, Illinois, 10 Jan. 1961.

1593. FLUTE IN C. *Badger, Buffalo, New York, early 19th cent.*

6 keys; foot to C<sup>1</sup>; cocus with silver fittings; 661 mm. Bought from A. J. Blencoe, Geneva, Illinois, 10 Jan. 1961.

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